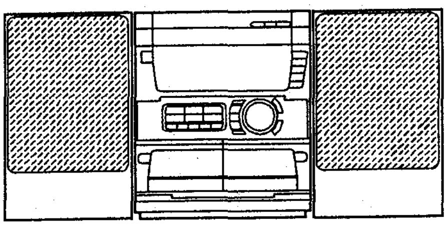
aiwa

aiwa
SERVICE

NSX-MT70
NSX-MT75
NSX-AV85



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM / YPR4NM
- BASIC CD MECHANISM : 4ZG–1 Z1DNM / Z1MD

- TYPE : 70U,75U, 85(EZ,LH,HE)

SYSTEM	CD CASSEIVER	SPEAKER	SUB WOOFER	REMOTE CONTROLLER
NSX-MT70	CX-NMT70 (TYPE : U)	SX–NA74 SX-R210 SX-C400	TS-W35 (OPTIONAL)	RC - 7AS08
NSX-MT75			TS-W35	
NSX-AV85	CX-NAV85 (TYPE : EZ,HE)	SX–NAV85 SX-CR423	-	
	CX-NAV85 (TYPE : LH)	SX–NAV85 SX–R270 SX-C600		

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-974-187-50T.

S/M Code No. 09–976–186–6FP

SERVICE MANUAL

TABLE OF CONTENTS

SPECIFICATIONS (NSX-MT70 U AND NSX-MT75 U) 3
SPECIFICATIONS (NSX-AV85 LH,HE) 4
SPECIFICATIONS (NSX-AV85 EZ) 5
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING 6
PRECAUTION TO REPLACE OPTICAL BLOCK 6
ELECTRICAL MAIN PARTS LIST .... 7~12
TRANSISTOR ILLUSTRATION 13
FL GRID ASSIGNMENT & ANODE CONNECTION 14,15
BLOCK DIAGRAM – 1 (PROLOGIC) 16
BLOCK DIAGRAM – 2 (MAIN / FRONT) 17,18
WIRING – 1 (MAIN : EZ) 19,20
SCHEMATIC DIAGRAM – 1 (MAIN : EZ) .... 21~23
SCHEMATIC DIAGRAM – 2 (MAIN : LH,U) .... 24~26
WIRING – 2 (MAIN : LH,U) 27,28
WIRING – 3 (MAIN : HE) 29,30
SCHEMATIC DIAGRAM – 3 (MAIN : HE) .... 31~33
SCHEMATIC DIAGRAM – 4 (FRONT) .... 34~36
WIRING – 4 (FRONT) 37,38
WIRING – 5 (PROLOGIC : U,LH,HE) 39,40
SCHEMATIC DIAGRAM – 5 (PROLOGIC : U,LH,HE) 41,42
WIRING – 6 (PROLOGIC : EZ) 43,44
SCHEMATIC DIAGRAM – 6 (PROLOGIC : EZ) 45,46
WIRING – 7 (PT) 47
WIRING – 8 (DECK) 48
SCHEMATIC DIAGRAM – 7 (TUNER FRONTEND / FAN) 49
IC BLOCK DIAGRAM .... 50~55
IC DESCRIPTION .... 56~60
ADJUSTMENT – 1 <TUNER / DECK> 61,62
PRACTICAL SERVICE FIGURE 63
TAPE MECHANISM EXPLODED VIEW 1 / 1 64,65
TAPE MECHANISM PARTS LIST 1 / 1 66
MECHANICAL EXPLODED VIEW 1 / 1 67,68
MECHANICAL PARTS LIST 1 / 1 69
SPRING APPLICATION POSITION 70
SPEAKER DISASSEMBLY INSTRUCTIONS 71
SPEAKER PARTS LIST 72,73
ACCESSORIES / PACKAGE LIST 73
REFERENCE NAME LIST 74

SPECIFICATIONS <NSX-MT70 U AND NSX-MT75 U>

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<MW Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop antenna

<Amplifier section>

Power output	**Front** 100 W + 100 W (50 Hz - 20 kHz, T.H.D.less than 1%, 6 ohms) **Rear (Surround)** 10 W + 10 W (1 kHz,T.H.D.less than 1%, 16 ohms) **Center** 20 W (1 kHz,T.H.D.less than 1%, 8 ohms)
Total harmonic distortion	0.05% (90 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 210 mV(adjustable) MD : 210mV (adjustable) MIC 1,MIC 2: 1.4mV (10 kohms)
Outputs	LINE OUT: 200mV SUPER WOOFER: 2.4 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more CENTER SPEAKER accept speakers of 8 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CRO_2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz –15000 Hz
Singnal-to noise ratio	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Deck 1 : playback head x 1 Deck 2 : Recording/Playback/ erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX–NA74>

Cabinet type	3 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 160 mm ($6^3/_8$ in.) cone type Tweeter : 80 mm ($3^1/_4$ in.) cone type Super tweeter: 20 mm ($^{13}/_{16}$ in.) ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	243 x 304 x 227mm ($9^5/_8$ X 12 X 9 in.)
Weight	3.6 kg (7 lbs 15 oz.)

<General>

Power requirements	120 VAC, 60 Hz
Power consumption	140 W
Dimensions of main unit	260 x 309 x 363 mm ($10^1/_4$ X $12^1/_4$ X $14^3/_8$ in.)
Weight	10 kg (22 lbs 1 oz.)

- Design and specifications are subject to change without notice.

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol ᗡᗞ are trademarks of Dolby Laboratories Licensing Corporation.

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  Under license from BBE Sound,Inc.

SPECIFICATIONS (NSX-AV85 LH,HE>

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	15.8 dBf
Antenna terminals	75 ohms (unbalanced)

<MW Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop antenna

<Amplifier section>

Power output	**Front** 150 W + 150 W (6 ohms, T.H.D.10%, 1kHz) **Rear (Surround)** 12.5 W + 12.5 W (16 ohms, T.H.D.10%, 1kHz) **Center** 25 W (8 ohms,T.H.D.10%, 1kHz)
Total harmonic distortion	0.05% (100 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 210 mV(adjustable) MD : 210mV (adjustable) MIC 1,MIC 2: 1.4mV (10 kohms)
Outputs	LINE OUT: 200mV SUPER WOOFER: 2.7 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more CENTER SPEAKER accept speakers of 8 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CRO$_2$ tape: 50 Hz – 16000 Hz Normal tape: 50 Hz –15000 Hz
Singnal-to noise ratio	60 dB (Dolby B NR ON, CrO$_2$ tape peak level)
Recording system	AC bias
Heads	Deck 1 : playback head x 1 Deck 2 : Recording/Playback/ erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX–NAV85>

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 160 mm cone type Tweeter : 80 mm cone type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	235 x 304 x 250 mm
Weight	4.4 kg

<General>

Power requirements	120 V/220-230V/240 V AC switchable, 50/60 Hz
Power consumption	185 W
Dimensions of main unit	260 x 309 x 370 mm
Weight of main unit	10.6 kg

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SPECIFICATIONS (NSX-AV85 EZ)

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	16.8 dBf
Antenna terminals	75 ohms (unbalanced)

<MW Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop antenna

<LW Tuner section>

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 uV/m
Antenna	Loop antenna

<Amplifier section>

Power output	**Front** Rated 100 W + 100 W (6 ohms, T.H.D.1%, 1kHz/DIN 45500) Reference : 125W + 125W (6 ohms, T.H.D 10%, 1kHz/DIN 45324) DIN MUSIC POWER: 210W + 210W **Surround (Rear)** Rated 10 W + 10 W (16 ohms, T.H.D.1%, 1kHz/DIN 45500) Reference : 12.5 W + 12.5 W (16 ohms,T.H.D. 10%, 1kHz/DIN 45324) DIN MUSIC POWER : 25W + 25 W **Center** Rated 20 W (8 ohms,T.H.D.1%, 1kHz/DIN 45500) Reference: 25 W (8 ohms, T.H.D. 10%, 1 kHz/DIN 45324) DIN MUSIC POWER 50 W
Total harmonic distortion	0.05% (90 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 210 mV(adjustable) MD : 210mV (adjustable) MIC 1,MIC 2: 1.4mV (10 kohms)
Outputs	LINE OUT: 200mV SUPER WOOFER: 2.4 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more CENTER SPEAKER accept speakers of 8 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CRO_2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz –15000 Hz
Singnal-to noise ratio	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Deck 1 : playback head x 1 Deck 2 : Recording/Playback/ erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX–NAV85>

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 160 mm cone type Tweeter : 80 mm cone type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	235 x 304 x 250 mm
Weight	4.4 kg

<General>

Power requirements	230 VAC, 50 Hz
Power consumption	180 W
Dimensions of main unit (W x H x D)	260 x 309 x 363 mm
Weight of main unit	10.5 kg

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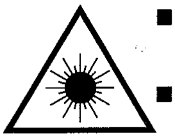
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION

L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

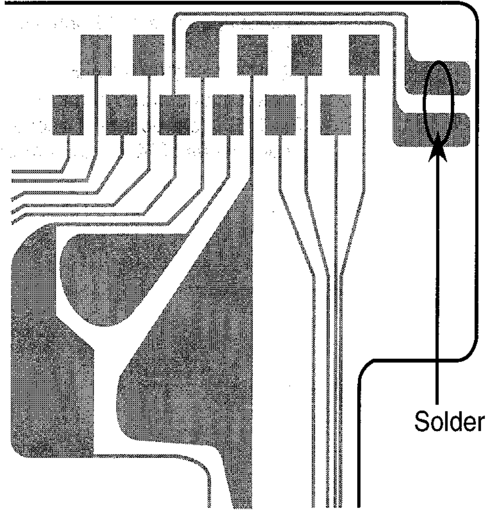
Precaution to replace Optical block

(KSS-213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.

PICK – UP Assy P.C.B.



ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-020-454-010		IC,DN6851
	87-NF4-642-010		IC,LC866548V-5E54
	87-070-083-010		IC,GPIU181X
	87-A20-455-010		IC,HA12211
	87-A20-355-010		IC,CXA1553P
	87-A20-083-010		IC,BA3835S
	87-A20-450-040		C-IC,BH3864F
	87-A20-056-010		IC,BA3880S
	87-070-289-040		IC,BU2092F
	87-A20-456-040		C-IC,BH3810FS
	87-017-888-080		C-IC,NJM4558MD
	86-NFZ-655-010		IC,LC72131D(Z)
	87-A20-438-010		IC,LA1837
	87-A20-440-040		C-IC,BU1920FS<EZ>
	87-A20-453-010		C-IC,NJM1102B
	87-A20-613-040		C-IC,BU9262AFS
	87-A20-452-040		C-IC,TC9260FS
TRANSISTOR			
	87-026-263-080		C-TR,RN1410
	89-213-702-010		TR,2SB1370E
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-026-610-080		TR,KTC3198GR
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-085-070		C-TR,CSA1362GR
	87-A30-083-080		TR,CSD1489B
	87-A30-084-080		TR,CSB1058B
	87-A30-071-080		C-TR,RT1N 144C
	87-026-609-080		TR,KTA1266GR
	87-A30-086-070		C-TR,CSD1306E
	87-A30-106-070		C-TR,CMBT5551
	87-A30-111-080		TR,C2N5401
	87-A30-097-010		TR,FN1016
	87-A30-098-010		TR,FP1016
	87-A30-089-010		FET,2SK2723
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-087-080		C-FET,2SK2158
	87-A30-074-080		C-TR,RT1P 141C
	89-327-143-080		C-TR,2SC2714(O)
	89-505-434-540		C-FET,2SK543-TB(4/5)<EZ>
	87-A30-112-080		TR,C2N5551
	89-420-612-010		TR,2SD2061 (2W)
	87-026-232-080		TR,DTA144WK
DIODE			
	87-017-437-080		DIODE,1N4148M
	87-A40-269-080		C-DIODE,MC2836
	87-A40-270-080		C-DIODE,MC2838
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-205-080		ZENER,UZ6.2BSC
	87-A40-211-080		ZENER,UZ36BSA
	87-A40-206-080		ZENER,UZ10BSC
	87-A40-202-080		ZENER,UZ5.1BSB
	87-070-178-090		DIODE,IN5402-BD54
	87-A40-246-080		DIODE,1N4148T-72
	87-017-481-080		ZENER,UZ-5.6BSB
	87-A40-192-080		ZENER,UZ4.3BSA
	87-A40-239-080		ZENER,UZ5.6BSA
	87-A40-004-080		ZENER,MTZJ16A
	87-A40-115-060		DIODE,RS603M
	87-A40-116-060		DIODE,RS403L-B-D-51
	87-A40-186-080		ZENER,UZ5.1BSC
MAIN C.B			

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C101	87-A10-059-090		CAP,E 3300-75
C102	87-A10-059-090		CAP,E 3300-75
C103	87-016-658-090		CAP,E 4700-35 M SMG
C104	87-016-658-090		CAP,E 4700-35 M SMG
C105	87-012-368-080		C-CAP,S 0.1-50 Z F
C106	87-012-368-080		C-CAP,S 0.1-50 Z F
C107	87-012-368-080		C-CAP,S 0.1-50 Z F
C108	87-012-368-080		C-CAP,S 0.1-50 Z F
C109	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C113	87-010-385-080		CAP,E 220-25 M SME<EXCEPT U>
C113	87-010-247-080		CAP,E 100-50 SME<U>
C114	87-010-385-080		CAP,E 220-25 M SME<EXCEPT U>
C115	87-010-385-080		CAP,E 220-25 M SME<EXCEPT U>
C116	87-010-385-080		CAP,E 220-25 M SME<EXCEPT U>
C116	87-010-247-080		CAP,E 100-50 SME<U>
C117	87-010-430-080		CAP,E 100-63
C118	87-010-263-080		CAP,E 100-10 SME
C119	87-010-260-080		CAP,E 47-25 SME
C120	87-010-403-080		CAP,E 3.3-50 M SME
C121	87-012-140-080		C-CAP,S 470P-50 J CH
C122	87-010-263-080		CAP,E 100-10 M SME<U>
C123	87-010-247-080		CAP,E 100-50 M SME
C124	87-010-112-080		CAP,E 100-16 M SME
C125	87-010-235-080		CAP,E 470-16 SME
C126	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C127	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C129	87-010-393-080		CAP,E 100-35 M SME
C200	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C201	87-010-400-080		CAP,E 0.47-50 M SME
C202	87-010-400-080		CAP,E 0.47-50 M SME
C205	87-010-181-080		C-CAP,S 1800P-50 K B
C206	87-010-181-080		C-CAP,S 1800P-50 K B
C207	87-010-404-080		CAP,E 4.7-50 M SME
C208	87-010-404-080		CAP,E 4.7-50 M SME
C209	87-010-404-080		CAP,E 4.7-50 M SME
C210	87-010-404-080		CAP,E 4.7-50 M SME
C211	87-010-186-080		C-CAP,S 4700P-50 K B
C212	87-010-186-080		C-CAP,S 4700P-50 K B
C213	87-010-260-080		CAP,E 47-25 SME
C214	87-010-260-080		CAP,E 47-25 SME
C215	87-010-196-080		C-CAP,S 0.1-25 Z F
C219	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C219	87-012-368-080		C-CAP,S 0.1-50 FZ<EXCEPT EZ>
C220	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C220	87-012-368-080		C-CAP,S 0.1-50 FZ<EXCEPT EZ>
C221	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C221	87-012-368-080		C-CAP,S 0.1-50 FZ<EXCEPT EZ>
C222	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C222	87-012-368-080		C-CAP,S 0.1-50 FZ<EXCEPT EZ>
C223	87-010-194-080		C-CAP,S 0.047-25 Z F<EXCEPT EZ>
C225	87-A10-516-080		C-CAP,S 100P-200 J CH
C226	87-A10-516-080		C-CAP,S 100P-200 J CH
C227	87-018-134-080		CAP,TC U 0.01-16NYUP050<EZ>
C228	87-018-131-080		CAP,TC U 1000P-50KB <EZ>
C229	87-016-461-080		C-CAP,S 0.47-16 ZF
C230	87-016-461-080		C-CAP,S 0.47-16 ZF
C231	87-010-176-080		C-CAP,S 680P-50 J SL<EZ>
C232	87-010-176-080		C-CAP,S 680P-50 J SL<EZ>
C235	87-010-213-080		CAP,S 0.015-25 K B<EZ>
C236	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C237	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C238	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C239	87-010-318-080		C-CAP,S 47P-50 J CH<EZ>
C240	87-010-318-080		C-CAP,S 47P-50 J CH<EZ>
C242	87-010-406-080		CAP,E 22-50 M SME
C243	87-010-197-080		C-CAP,S 0.01-25 K B
C244	87-010-406-080		CAP,E 22-50 M SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C301	87-010-318-080		C-CAP,S 47P-50 J CH
C302	87-010-318-080		C-CAP,S 47P-50 J CH
C303	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C304	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C305	87-012-145-080		C-CAP,S 270P-50 J CH
C306	87-012-145-080		C-CAP,S 270P-50 J CH
C307	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C311	87-010-198-080		C-CAP,S 0.022-25 K B
C312	87-010-198-080		C-CAP,S 0.022-25 K B
C313	87-010-180-080		C-CAP,S 1500P-50 K B
C314	87-010-180-080		C-CAP,S 1500P-50 K B
C315	87-010-178-080		C-CAP,S 1000P-50 K B
C316	87-010-178-080		C-CAP,S 1000P-50 K B
C317	87-012-142-080		C-CAP,S 0.33-16 Z F
C318	87-012-142-080		C-CAP,S 0.33-16 Z F
C319	87-012-141-080		C-CAP,S 0.22-16 Z F
C320	87-012-141-080		C-CAP,S 0.22-16 Z F
C321	87-012-141-080		C-CAP,S 0.22-16 Z F
C322	87-012-141-080		C-CAP,S 0.22-16 Z F
C324	87-010-260-080		CAP,E 47-25 SME
C325	87-010-370-080		CAP,E 330-6.3 M SME
C327	87-010-404-080		CAP,E 4.7-50 M SME
C328	87-010-404-080		CAP,E 4.7-50 M SME
C332	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C335	87-010-401-080		CAP,E 1-50 M SME
C336	87-010-401-080		CAP,E 1-50 M SME
C337	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C339	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C340	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C351	87-012-140-080		C-CAP,S 470P-50 J CH
C352	87-012-140-080		C-CAP,S 470P-50 J CH
C354	87-010-175-080		C-CAP,S 560P-50 J SL
C355	87-010-178-080		C-CAP,S 1000P-50 K B
C356	87-010-260-080		CAP,E 47-25 SME
C357	87-010-197-080		C-CAP,S 0.01-25 K B
C358	87-010-183-080		C-CAP,S 2700P-50 K B
C359	87-010-183-080		C-CAP,S 2700P-50 K B
C360	87-010-183-080		C-CAP,S 2700P-50 K B
C370	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C371	87-010-179-080		C-CAP,S 1200P-50 K B
C372	87-010-179-080		C-CAP,S 1200P-50 K B
C373	87-010-179-080		C-CAP,S 1200P-50 K B
C374	87-010-179-080		C-CAP,S 1200P-50 K B
C375	87-010-545-080		CAP,E 0.22-50 M SME
C376	87-010-545-080		CAP,E 0.22-50 M SME
C378	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C381	87-010-197-080		C-CAP,S 0.01-25 K B
C382	87-010-318-080		C-CAP,S 47P-50 J CH
C383	87-010-197-080		C-CAP,S 0.01-25 K B
C384	87-010-402-080		CAP,E 2.2-50 M SME
C385	87-010-184-080		C-CAP,S 3300P-50 K B
C386	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C388	87-010-154-080		C-CAP,S 10P-50 D CH
C401	87-010-187-080		C-CAP,S 5600P-50 K B
C402	87-010-187-080		C-CAP,S 5600P-50 K B
C403	87-010-405-080		CAP,E 10-50 M SME
C404	87-010-405-080		CAP,E 10-50 M SME
C405	87-010-260-080		CAP,E 47-25 SME
C406	87-010-101-080		CAP,E 220-16 SME
C407	87-010-188-080		C-CAP,S 6800P-50 K B
C408	87-010-188-080		C-CAP,S 6800P-50 K B
C409	87-012-140-080		C-CAP,S 470P-50 J CH
C410	87-012-140-080		C-CAP,S 470P-50 J CH
C411	87-010-197-080		C-CAP,S 0.01-25 K B
C412	87-010-197-080		C-CAP,S 0.01-25 K B
C413	87-010-195-080		C-CAP,S 0.068-25 Z F C2012
C414	87-010-195-080		C-CAP,S 0.068-25 Z F C2012
C415	87-010-404-080		CAP,E 4.7-50 M SME
C416	87-010-404-080		CAP,E 4.7-50 M SME
C417	87-010-404-080		CAP,E 4.7-50 M SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C418	87-010-404-080		CAP,E 4.7-50 M SME
C421	87-010-401-080		CAP,E 1-50 M SME
C422	87-010-401-080		CAP,E 1-50 M SME
C516	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C601	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C602	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C605	87-010-180-080		C-CAP,S 1500P-50 K B<EXCEPT EZ>
C606	87-010-180-080		C-CAP,S 1500P-50 K B
C609	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C610	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C611	87-016-081-080		C-CAP,S 0.1-16 KR
C613	87-010-404-080		CAP,E 4.7-50 M SME
C614	87-010-404-080		CAP,E 4.7-50 M SME
C615	87-010-183-080		C-CAP,S 2700P-50 K B<EZ>
C619	87-010-263-080		CAP,E 100-10 SME
C620	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C621	87-010-263-080		CAP,E 100-10 SME
C622	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C623	87-010-194-080		C-CAP,S 0.047-25 Z F
C629	87-012-368-080		C-CAP,S 0.1-50 FZ
C630	87-010-196-080		C-CAP,S 0.1-25 ZF<EZ>
C631	87-015-785-080		C-CAP, 0.1-25 ZF<EZ>
C632	87-010-196-080		C-CAP,S 0.1-25 ZF<EZ>
C633	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C636	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C637	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C646	87-010-322-080		C-CAP,S 100P-50 J CH
C647	87-010-322-080		C-CAP,S 100P-50 J CH
C701	87-010-381-080		CAP,E 330-16 SME
C702	87-010-404-080		CAP,E 4.7-50 M SME
C703	87-010-197-080		C-CAP,S 0.01-25 K B
C704	87-010-197-080		C-CAP,S 0.01-25 K B
C711	87-010-263-080		CAP,E 100-10 SME
C712	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C713	87-010-197-080		C-CAP,S 0.01-25 K B
C714	87-010-197-080		C-CAP,S 0.01-25 K B
C715	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C721	87-010-312-080		C-CAP,S 15P-50 J CH
C722	87-010-312-080		C-CAP,S 15P-50 J CH
C723	87-010-178-080		C-CAP,S 1000P-50 K B
C725	87-010-178-080		C-CAP,S 1000P-50 K B
C727	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C728	87-010-248-080		CAP,E 220-10 SME
C755	87-010-197-080		C-CAP,S 0.01-25 K B
C756	87-010-197-080		C-CAP,S 0.01-25 K B
C757	87-010-318-080		C-CAP,S 47P-50 J CH
C758	87-010-149-080		C-CAP,S 5P-50 CH
C761	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C762	87-010-197-080		C-CAP,S 0.01-25 K B
C763	87-010-194-080		C-CAP,S 0.047-25 Z F
C765	87-010-197-080		C-CAP,S 0.01-25 K B
C766	87-010-197-080		C-CAP,S 0.01-25 K B
C767	87-010-405-080		CAP,E 10-50 M SME
C768	87-010-197-080		C-CAP,S 0.01-25 K B
C769	87-010-408-080		CAP,E 47-50 SME
C770	87-015-821-080		C-CAP, 0.047-50 Z F GR
C771	87-010-407-080		CAP,E 33-50 SME
C772	87-010-194-080		C-CAP,S 0.047-25 Z F
C773	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C774	87-010-263-080		CAP,E 100-10 SME
C775	87-010-404-080		CAP,E 4.7-50 M SME
C776	87-010-197-080		C-CAP,S 0.01-25 K B<EXCEPT HE>
C777	87-010-400-080		CAP,E 0.47-50 M SME
C778	87-010-401-080		CAP,E 1-50 M SME
C779	87-010-401-080		CAP,E 1-50 M SME
C780	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C781	87-010-405-080		CAP,E 10-50 M SME
C782	87-010-405-080		CAP,E 10-50 M SME
C783	87-015-819-080		C-CAP,0.01-50 K B
C784	87-010-197-080		C-CAP,S 0.01-25 K B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C785	87-010-400-080		CAP,E 0.47-50 M SME
C786	87-010-400-080		CAP,E 0.47-50 M SME
C787	87-010-184-080		C-CAP,S 3300P-50 K B
C788	87-010-184-080		C-CAP,S 3300P-50 K B
C789	87-010-179-080		C-CAP,S 1200P-50 K B
C790	87-010-179-080		C-CAP,S 1200P-50 K B
C791	87-010-405-080		CAP,E 10-50 M SME
C793	87-010-178-080		C-CAP,S 1000P-50 KB<EXCEPT EZ>
C793	87-012-156-080		C-CAP,S 220P-50 J CH GRM<EZ>
C794	87-010-406-080		CAP,E 22-50 M SME
C795	87-010-596-080		C-CAP,S 0.047-16 K R
C796	87-010-403-080		CAP,E 3.3-50 M SME
C797	87-010-180-080		C-CAP,S 1500P-50 K B<HE>
C797	87-010-182-080		C-CAP,S 2200P-50 K B<U,LH>
C798	87-010-180-080		C-CAP,S 1500P-50 K B<HE>
C798	87-010-182-080		C-CAP,S 2200P-50 K B<U,LH>
C799	87-010-194-080		C-CAP,S 0.047-25 Z F
C812	87-010-197-080		C-CAP,S 0.01-25 K B
C814	87-010-197-080		C-CAP,S 0.01-25 K B
C820	87-010-408-080		CAP,E 47-50 SME
C821	87-010-197-080		C-CAP,S 0.01-25 K B
C822	87-010-197-080		C-CAP,S 0.01-25 K B
C823	87-010-197-080		C-CAP,S 0.01-25 K B
C828	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C829	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C859	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C861	87-010-156-080		C-CAP,S 220P-50 J CH<EZ>
C862	87-010-156-080		C-CAP,S 220P-50 J CH<EZ>
C863	87-012-140-080		C-CAP,S 470P-50 J CH<EZ>
C864	87-010-405-080		CAP,E 10-50 M SME<EZ>
C865	87-010-196-080		C-CAP,S 0.1-25 ZF C2012<EZ>
C866	87-010-405-080		CAP,E 10-50 M SME<EZ>
C867	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C868	87-010-316-080		C-CAP,S 33P-50 J CH<EZ>
C869	87-010-314-080		C-CAP,S 22P-50 J CH<EZ>
C940	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,HE>
C941	87-010-314-080		C-CAP,S 22P-50 J CH<HE>
C942	87-010-151-080		C-CAP,S 7P-50 D CH<EZ>
C943	87-010-197-080		C-CAP,S 0.01-25 K B<HE>
C944	87-014-051-080		CAP,PP 560P-100 J <HE>
C945	87-010-197-080		C-CAP,S 0.01-25 K B<HE>
C947	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,HE>
C949	87-014-049-080		CAP,PP 470P-100 J<EZ>
C950	87-014-073-080		CAP,PP 4700P-100 J <HE>
C952	87-010-197-080		C-CAP,S 0.01-25 K B<EZ,HE>
C953	87-010-197-080		C-CAP,S 0.01-25 K B<HE>
C954	87-010-400-080		CAP,E 0.47-50 M SME<HE>
C956	87-010-263-080		CAP,E 100-10 M SME<HE>
C957	87-010-311-080		C-CAP,S 12P-50 J CH<EZ>
C958	87-010-197-080		C-CAP,S 0.01-25 K B<EZ>
C959	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C960	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C961	87-010-152-080		C-CAP,8P-50 D CH<U,LH>
C962	87-010-401-080		CAP,E 1-50 M SME<EZ,HE>
CF801	87-008-261-010		FLTR,CFSFE10.7MA5<EXCEPT EZ>
CF801	87-008-423-010		FLTR,IFSFE10.7MS3G-A<EZ>
CF802	87-008-261-010		FLTR,CFSFE10.7MA5<EXCEPT EZ>
CF802	82-785-747-010		CF,MS2 GHY,R<EZ>
FB301	87-008-372-080		FLTR,EMIBL01 RN1<EZ>
FFE801	A8-7ZA-290-030		7ZA-2 FEUNM<USTNM,LHSTNM,HESTNM>
FFE801	A8-7ZA-291-030		7ZA-2 YFEUNM<UST,LHST,HEST>
FFE801	A8-6ZA-195-030		6ZA-1 YFEENM<EZSTNE>
FFE801	A8-6ZA-191-030		6ZA-1 FEENM<EZSTNM>
J252	87-A60-031-010		JACK,6.3 BLK ST W/S
J253	87-A60-413-010		JACK,PIN 1P BLK YKC21-3466
J254	87-A60-238-010		TERMINAL,SP 4P (MSC)
J601	87-A60-426-010		JACK,PIN 6P YKC21-3835
J801	87-A60-202-010		TERMINAL,ANT4PMSP-154V-02 <EXCEPT EZ>
J801	87-A60-427-010		TERMINAL,ANT PAL 2P YKD3<EZ>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
J940	81-754-629-010		CONNECTOR,XH 2P(UL)<HE>
L201	87-003-383-010		COIL,1UH K
L202	87-003-383-010		COIL,1UH K
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85KHZ BIAS
L601	87-003-231-080		C-COIL,2125 1UH
L770	87-005-849-080		COIL,10UH K CECS
L771	87-A50-165-010		COIL,FM DET-N(TOK)
L772	87-A90-052-010		FLTR,CFMT-450A (TOK)<HE>
L772	87-A90-245-010		FLTR,CFAZH-450 (TOK)<EXCEPT HE>
L850	87-005-847-080		COIL,2.2UH K CECS<EZ>
L832	87-005-847-080		COIL,2.2UH K CECS
L791	87-A50-027-010		COIL, 1 POLE MPX (TOK)<EZ,HE>
L791	87-003-293-010		COIL, 1 TRAP MPX<U,LH>
L792	87-A50-027-010		COIL, 1 POLE MPX (TOK)<EZ,HE>
L792	87-003-293-010		COIL, 1 TRAP MPX<U,LH>
L941	87-A50-022-010		COIL,ANT SW (COI) 7.96MHZ<HE>
L941	87-A50-020-010		COIL,ANT LW (COI)252KHZ<EZ>
L942	87-A50-019-010		COIL,OSC LW (COI)856KHZ<EZ>
L942	87-A50-173-010		COIL,OSC SW-N (COI)<HE>
L943	87-005-372-080		COIL,1UH (K)LAL03<HE>
L944	87-A50-159-010		COIL,10UH K C2B<HE>
L981	86-NF4-666-010		COIL,AM PACK3(TOK)<HE>
L981	86-NF4-650-010		COIL,AM PACK 4N(TOM)<U,LH>
L981	86-NF4-668-010		COIL,AM PACK 2(TOM)<EZ>
⚠ PR201	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR201	87-026-682-080		PROTECTOR,10A 491SERIES 60V <EXCEPT U>
⚠ PR202	87-026-691-080		FUSE,10A 125 251<U>
⚠ PR202	87-026-682-080		PROTECTOR,10A 491SERIES 60V <EXCEPT U>
R123	87-022-200-080		RES,M/F 0.56-1W J<EXCEPT EZ>
R231	87-A00-262-080		RES,M/F 0.15-2W J
R232	87-A00-262-080		RES,M/F 0.15-2W J
RY101	87-045-389-010		RELAY,12V OSA-SS-212DM5
SFR301	87-024-435-080		SFR,33K H RH063MC
SFR302	87-024-435-080		SFR,33K H RH063MC
SFR303	87-024-435-080		SFR,33K H RH063MC
SFR304	87-024-435-080		SFR,33K H RH063MC
SFR305	87-024-436-080		SFR,47K H RH063MC
SFR306	87-024-436-080		SFR,47K H RH063MC
SFR351	87-024-436-080		SFR,47K H RH063MC
SFR352	87-024-436-080		SFR,47K H RH063MC
TC941	87-011-220-080		TRIMMER,CER 20P 6.15X5.9<HE>
TC942	87-011-221-080		TRIMMER,CER 30P 6.15X5.9<HE>
TC942	87-011-253-080		TRIMMER,30P LAK<EZ>
TH201	87-A90-221-080		C-THMS,100K<EXCEPT U>
TH202	87-A90-221-080		C-THMS,100K<EXCEPT U>
W1	85-NF5-628-010		F-CABLE,7P-2.5
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
X771	87-030-354-010		VIB,CER 450.0KHZ BFU C<HE>
X850	87-KT1-608-010		X,TAL 4.332MHZ<EZ>

FRONT C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C103	87-010-197-080		C-CAP,S 0.01-25 K B
C104	87-010-312-080		C-CAP,S 15P-50 J CH
C105	87-010-316-080		C-CAP,S 33P-50 J CH
C106	87-010-320-080		C-CAP,S 68P-50 J CH
C107	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C108	87-010-560-040		CAP,E 10-50 M 5L MA
C109	87-010-401-040		CAP,E 1-50 M SME
C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C113	87-A10-189-040		CAP,E 220-10 M
C114	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C115	87-010-178-080		C-CAP,S 1000P-50 K B
C116	87-010-494-040		CAP,E 1-50 5L SRE

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C117	87-010-555-040		CAP,E 100-10 5L SRE
C118	87-010-194-080		C-CAP,S 0.047-25 Z F
C119	87-010-408-040		CAP,E 47-50 M SME
C120	87-010-404-040		CAP,E 4.7-50 SME
C121	87-010-404-040		CAP,E 4.7-50 SME
C122	87-010-194-080		C-CAP,S 0.047-25 Z F
C123	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C124	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C125	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C127	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C128	87-010-178-080		C-CAP,S 1000P-50 K B
C201	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C351	87-012-158-080		C-CAP,S 390P-50 J CH GRM
C352	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C353	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C354	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C355	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C356	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C357	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C605	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
FB601	87-008-372-080		FLTR,EMIBL01 RN1
FL101	87-NF5-611-010		FL,BJ530GK 7NF-5
J601	87-A60-284-010		JACK,3.5MO (MSC)
J602	87-A60-284-010		JACK,3.5MO (MSC)
LED201	87-A40-317-080		LED,SLR-342VCT31 RED
LED202	87-A40-317-080		LED,SLR-342VCT31 RED
LED203	87-A40-317-080		LED,SLR-342VCT31 RED
LED204	87-A40-317-080		LED,SLR-342VCT31 RED
LED205	87-A40-317-080		LED,SLR-342VCT31 RED
LED206	87-A40-316-080		LED,SLR-56PCT31 GRN
LED207	87-A40-316-080		LED,SLR-56PCT31 GRN
LED208	87-A40-316-080		LED,SLR-56PCT31 GRN
LED209	87-A40-316-080		LED,SLR-56PCT31 GRN
LED210	87-A40-316-080		LED,SLR-56PCT31 GRN
LED211	87-A40-316-080		LED,SLR-56PCT31 GRN
LED212	87-A40-316-080		LED,SLR-56PCT31 GRN
LED213	87-A40-316-080		LED,SLR-56PCT31 GRN
LED214	87-A40-316-080		LED,SLR-56PCT31 GRN
LED215	87-A40-316-080		LED,SLR-56PCT31 GRN
LED216	87-A40-263-080		LED,SLH-56PCT31 GRN
LED217	87-A40-263-080		LED,SLH-56PCT31 GRN
LED218	87-A40-263-080		LED,SLH-56PCT31 GRN
LED219	87-A40-263-080		LED,SLH-56PCT31 GRN
LED220	87-A40-263-080		LED,SLH-56PCT31 GRN
LED221	87-A40-263-080		LED,SLH-56PCT31 GRN
LED222	87-A40-266-080		LED,SLH-56VCT31 RED
LED223	87-A40-266-080		LED,SLH-56VCT31 RED
LED224	87-A40-266-080		LED,SLH-56VCT31 RED
LED225	87-A40-266-080		LED,SLH-56VCT31 RED
LED226	87-A40-266-080		LED,SLH-56VCT31 RED
LED227	87-A40-266-080		LED,SLH-56VCT31 RED
LED228	87-A40-266-080		LED,SLH-56VCT31 RED
LED229	87-A40-266-080		LED,SLH-56VCT31 RED
LED233	87-A40-265-010		LED,SLH-56PCL GRN
LED234	87-A40-265-010		LED,SLH-56PCL GRN
LED235	87-A40-267-010		LED,SLH-56VCL RED
LED236	87-A40-267-010		LED,SLH-56VCL RED
LED237	87-A40-265-010		LED,SLH-56PCL GRN
LED238	87-A40-265-010		LED,SLH-56PCL GRN
LED239	87-A40-266-080		LED,SLH-56VCT31 RED
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M
S306	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S314	87-A90-095-080		SW,TACT EVQ11G04M
S315	87-A90-095-080		SW,TACT EVQ11G04M

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S316	87-A90-095-080		SW,TACT EVQ11G04M
S317	87-A90-095-080		SW,TACT EVQ11G04M
S318	87-A90-095-080		SW,TACT EVQ11G04M
S319	87-A90-095-080		SW,TACT EVQ11G04M
S320	87-A90-095-080		SW,TACT EVQ11G04M
S321	87-A90-095-080		SW,TACT EVQ11G04M
S322	87-A90-095-080		SW,TACT EVQ11G04M
S328	87-A90-095-080		SW,TACT EVQ11G04M
S329	87-A90-095-080		SW,TACT EVQ11G04M
S330	87-A90-095-080		SW,TACT EVQ11G04M
S331	87-A90-095-080		SW,TACT EVQ11G04M
S332	87-A90-095-080		SW,TACT EVQ11G04M
S336	87-A90-095-080		SW,TACT EVQ11G04M
S339	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S340	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
S341	87-A90-095-080		SW,TACT EVQ11G04M<EZ>
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF

CD KEY C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S309	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M
S311	87-A90-095-080		SW,TACT EVQ11G04M
S312	87-A90-095-080		SW,TACT EVQ11G04M
S313	87-A90-095-080		SW,TACT EVQ11G04M

FAN C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
	87-A90-463-010		FAN,2408 NL<LH,HE>
C130	87-010-401-080		CAP,E 1-50 M SME<LH,HE>
C131	87-010-263-080		CAP,E 100-10 SME<LH,HE>
C132	87-010-380-080		CAP,E 47-16 M SME<LH,HE>

AC2 C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ PR1	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR1	87-026-682-080		PROTECTOR,10A 491SERIES 60V <EXCEPT U>
⚠ PR2	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR2	87-026-682-080		PROTECTOR,10A 491SERIES 60V <EXCEPT U>
⚠ PR3	87-026-690-080		FUSE,5A 125V 251<U>
⚠ PR3	87-026-681-080		PROTECTOR,5A 491SERIES 60V <EXCEPT U>
⚠ PR4	87-026-690-080		FUSE,5A 125V 251<U>
⚠ PR4	87-026-681-080		PROTECTOR,5A 491SERIES 60V <EXCEPT U>
⚠ PR5	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR5	87-026-682-080		PROTECTOR,10A 491SERIES 60V <EXCEPT U>
⚠ PR6	87-026-691-080		FUSE,10A 125V 251<U>
⚠ PR6	87-026-682-080		PROTECTOR,10A 491SERIES 60V <EXCEPT U>

AC1 C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ FC1	87-033-147-010		FUSE CLAMP,MT-20<HE,LH>
⚠ FC1	87-033-213-080		FUSE CLAMP,PFC5000<EZ,U>
⚠ FC2	87-033-147-010		FUSE CLAMP,MT-20<HE,LH>
⚠ FC2	87-033-213-080		FUSE CLAMP,PFC5000<EZ,U>
⚠ FC3	87-033-147-010		FUSE CLAMP,MT-20<HE,LH>
⚠ FC4	87-033-147-010		FUSE CLAMP,MT-20<HE,LH>
⚠ F101	87-035-457-010		FUSE,3.15A 250V T218<EZ>
⚠ F101	87-035-491-010		FUSE,6A 125V T237<U>
⚠ F101	87-035-457-010		FUSE,3.15A 250V T218<HE,LH>
⚠ F102	87-035-457-010		FUSE,3.15A 250V T218<HE,LH>
⚠ FB101	87-003-317-010		F-BEAD,15-25-15 E251<EZ>
⚠ PT101	87-NFS-601-010		PT,HR EI96-60 7NF-S<HE>
⚠ PT101	87-NFS-604-010		PT,LH EI96-60 7NF-S<LH>
⚠ PT101	87-NFS-602-010		PT,U EI96-60 7NF-S<U>
⚠ PT101	87-NFS-603-010		PT,E EI96-60 7NF-S<EZ>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ SW101	87-A90-165-010		SW,SL 1-2-3 SWS2301<HE,LH>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC

AUDIO C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C403	87-010-992-080		C-CAP,S 0.047-25 K B MK212
C404	87-010-992-080		C-CAP,S 0.047-25 K B MK212
C405	87-010-401-040		CAP,E 1-50 M SME
C406	87-010-401-040		CAP,E 1-50 M SME
C407	87-010-184-080		C-CAP,S 3300P-50 K B
C408	87-010-184-080		C-CAP,S 3300P-50 K B
C409	87-010-592-080		C-CAP,S 0.022-16 K R
C410	87-010-592-080		C-CAP,S 0.022-16 K R
C411	87-016-463-080		C-CAP, 0.33-16 K B C3216
C412	87-016-463-080		C-CAP, 0.33-16 K B C3216
C413	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C414	87-010-374-040		CAP,E 47-10 SME
C415	87-010-374-040		CAP,E 47-10 SME
C416	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C417	87-016-081-080		C-CAP,S 0.1-16 K R
C418	87-010-405-040		CAP,E 10-50 M SME
C419	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<U>
C601	87-010-405-040		CAP,E 10-50 M SME
C602	87-010-186-080		C-CAP,S 4700P-50 K B
C603	87-010-405-040		CAP,E 10-50 M SME
C604	87-010-382-040		CAP,E 22-25 SME
C607	87-010-321-080		C-CAP,S 82P-50 J CH
C608	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C609	87-010-545-040		CAP,E 0.22-50 M SME
C611	87-010-177-080		C-CAP,S 820P-50 J SL
C612	87-010-597-080		C-CAP,S 0.056-16 RK
C614	87-010-248-040		CAP,E 220-10 M SME
CN501	88-913-191-110		FF-CABLE,13P 1.25
FB401	87-008-373-080		FILTER,EMIBL01 RN1<U>

RE C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C101	87-010-198-080		C-CAP,S 0.022-25 K B
C102	87-010-198-080		C-CAP,S 0.022-25 K B
S101	87-A90-535-010		SW,RTRY EC16B24304-W0 NON
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M

DECK C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
W001	82-ZM3-601-019		RBN,CORD,4P-75
SFR1	87-024-581-019		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-010		SOL ASSY, 27
SOL2	82-ZM1-618-010		SOL ASSY, 27
SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-036-110-010		SW,MICRO SPPB62
SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW9	87-036-110-010		SW,MICRO SPPB62
CON502	87-099-756-019		CONN, 15P 9604 S F

HEAD-1 C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
	85-ZM3-602-010		PWB,FLEX A

HEAD-2 C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
	85-ZM3-602-010		PWB,FLEX A
CN351	83-NEG-608-010		CONN ASSY,8P-RPB

PRO C.B

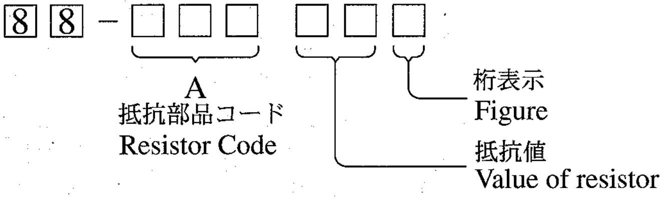
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C101	87-012-368-080		C-CAP,S 0.1-50 F
C102	87-012-368-080		C-CAP,S 0.1-50 F
C103	87-010-398-090		CAP,E 2200-35V
C104	87-010-398-090		CAP,E 2200-35V
C105	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C106	87-010-382-080		CAP, ELECT 22-25V
C107	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C108	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C109	87-016-369-080		C-CAP,S 0.033-25 B K
C110	87-010-194-080		CAP, CHIP 0.047
C112	87-010-196-080		CHIP CAPACITOR,0.1-25
C117	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C118	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C201	87-010-186-080		CAP,CHIP 4700P
C202	87-010-402-080		CAP, ELECT 2.2-50V
C203	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C204	87-010-405-080		CAP, ELECT 10-50V
C205	87-A10-516-080		C-CAP,S 100P-200 J CH
C208	87-010-260-080		CAP, ELECT 47-25V
C209	87-010-993-080		C-CAP,S 0.056-25 B
C210	87-010-196-080		CHIP CAPACITOR,0.1-25
C211	87-010-197-080		CAP, CHIP 0.01 DM
C212	87-010-196-080		CHIP CAPACITOR,0.1-25
C213	87-010-406-080		CAP, ELECT 22-50
C214	87-010-197-080		C-CAP,S 0.01-25 BK<EZ>
C301	87-010-183-080		C-CAP,S 2700P-50 B
C302	87-010-402-080		CAP, ELECT 2.2-50V
C303	87-010-322-080		C-CAP,S 100P-50 J CH<EZ>
C304	87-010-382-080		CAP, ELECT 22-25V
C305	87-A10-516-080		C-CAP,S 100P-200 J CH
C308	87-010-260-080		CAP, ELECT 47-25V
C309	87-010-993-080		C-CAP,S 0.056-25 B
C310	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-197-080		CAP, CHIP 0.01 DM
C312	87-010-196-080		CHIP CAPACITOR,0.1-25
C313	87-010-406-080		CAP, ELECT 22-50
C314	87-010-197-080		C-CAP,S 0.01-25 BK<EZ>
C315	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C316	87-012-368-080		C-CAP,S 0.1-50 F<EZ>
C501	87-010-176-080		C-CAP,S 680P-50 SL
C502	87-010-176-080		C-CAP,S 680P-50 SL
C507	87-016-456-080		CAP,E 22-16 LLA
C508	87-010-196-080		CHIP CAPACITOR,0.1-25
C509	87-010-112-080		CAP, ELECT 100-16V
C510	87-010-380-080		CAP, ELECT 47-16V
C512	87-016-472-080		CAP,E 22-16 SME(K)
C513	87-010-196-080		CHIP CAPACITOR,0.1-25
C514	87-010-263-080		CAP, ELECT 100-10V
C518	87-010-378-080		CAP, ELECT 10-16V
C519	87-010-378-080		CAP, ELECT 10-16V<EZ>
C519	87-010-404-080		CAP, ELECT 4.7-50V<EXCEPT EZ>
C520	87-010-378-080		CAP, ELECT 10-16V<EZ>
C520	87-010-404-080		CAP, ELECT 4.7-50V<EXCEPT EZ>
C521	87-010-805-080		C-CAP,S 1-16 FZ<EZ>
C521	87-010-400-080		CAP, ELECT 0.47-50V<EXCEPT EZ>
C522	87-010-378-080		CAP, ELECT 10-16V
C523	87-010-400-080		CAP, ELECT 0.47-50V
C524	87-016-081-080		C-CAP,S 0.1-16 RK
C525	87-010-248-080		CAP, ELECT 220-10V
C526	87-012-140-080		CAP 470P
C527	87-010-186-080		CAP,CHIP 4700P
C528	87-010-186-080		CAP,CHIP 4700P
C529	87-010-404-080		CAP, ELECT 4.7-50V
C532	87-A10-229-080		C-CAP,S 0.68-10 K W5
C533	87-012-393-080		C-CAP,S 0.22-16 R K
C534	87-012-393-080		C-CAP,S 0.22-16 R K
C535	87-010-404-080		CAP, ELECT 4.7-50V
C536	87-010-404-080		CAP, ELECT 4.7-50V
C537	87-012-393-080		C-CAP,S 0.22-16 R K
C538	87-012-393-080		C-CAP,S 0.22-16 R K

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C539	87-016-081-080		C-CAP,S 0.1-16 RK
C542	87-016-081-080		C-CAP,S 0.1-16 RK
C543	87-016-081-080		C-CAP,S 0.1-16 RK
C546	87-016-081-080		C-CAP,S 0.1-16 RK
C548	87-010-178-080		C-CAP,S 1000P-50 BK<EZ>
C549	87-010-178-080		C-CAP,S 1000P-50 BK<EZ>
C550	87-010-314-080		C-CAP,S 22P-50 J CH<EZ>
C604	87-010-319-080		C-CAP,S 56P-50 CH
C605	87-010-319-080		C-CAP,S 56P-50 CH
C606	87-016-526-080		C-CAP,S 0.47-16 BK
C607	87-010-197-080		CAP, CHIP 0.01 DM
C608	87-010-180-080		C-CER 1500P
C609	87-010-197-080		CAP, CHIP 0.01 DM
C610	87-010-197-080		CAP, CHIP 0.01 DM
C611	87-010-197-080		CAP, CHIP 0.01 DM
C612	87-010-181-080		CAP,CHIP S 1800P
C613	87-010-196-080		CHIP CAPACITOR,0.1-25
C615	87-010-263-080		CAP, ELECT 100-10V
C616	87-010-404-080		CAP, ELECT 4.7-50V
C617	87-010-196-080		CHIP CAPACITOR,0.1-25
C618	87-010-263-080		CAP, ELECT 100-10V
C621	87-010-403-080		CAP, ELECT 3.3-50V
C622	87-A10-201-080		C-CAP,S 0.33-16 BK<EZ>
C622	87-012-141-080		C-CAP,S 0.22-16 ZF<EXCEPT EZ>
C624	87-010-197-080		C-CAP,S 0.01-25 BK<EZ>

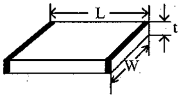
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C701	87-010-401-080		CAP, ELECT 1-50V
C702	87-010-401-080		CAP, ELECT 1-50V
C703	87-010-263-080		CAP, ELECT 100-10V
C707	87-016-526-080		C-CAP,S 0.47-16 BK
C708	87-016-526-080		C-CAP,S 0.47-16 BK
C709	87-010-380-080		CAP, ELECT 47-16V
C712	87-010-197-080		C-CAP,S 0.01-25 BK<EZ>
C713	87-010-178-080		C-CAP,S 1000P-50 BK<EZ>
FB106	87-008-372-080		FILTER, EMI BL01 RN1<EXCEPT EZ>
FB512	87-008-372-080		FILTER, EMI BL01 RN1<EZ>
FB516	87-008-474-080		F-BEAD,BL02RN1-R62T<EZ>
FB705	87-008-372-080		FILTER, EMI BL01 RN1<EZ>
J201	87-A60-380-010		JACK,PIN 3P O/W/R YKC21-3
L201	87-003-383-010		COIL,1UH-S
L301	87-003-383-010		COIL,1UH-S
L601	87-005-212-080		COIL,220UH
R215	87-A00-257-080		RES,M/F 0.15-1W J
R315	87-A00-257-080		RES,M/F 0.15-1W J
R524	87-022-365-080		C-RES,S 100K-1/10W F

Oチップ抵抗部品コード／CHIP RESISTOR PART CODE

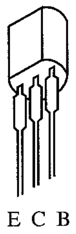
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



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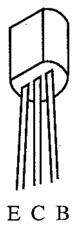

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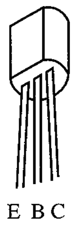

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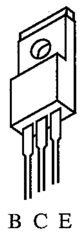

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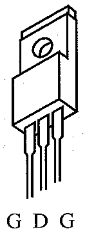
FN1016
FP1016



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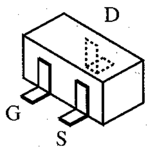

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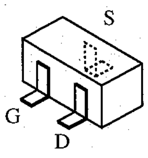

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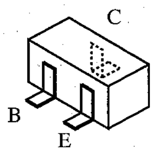

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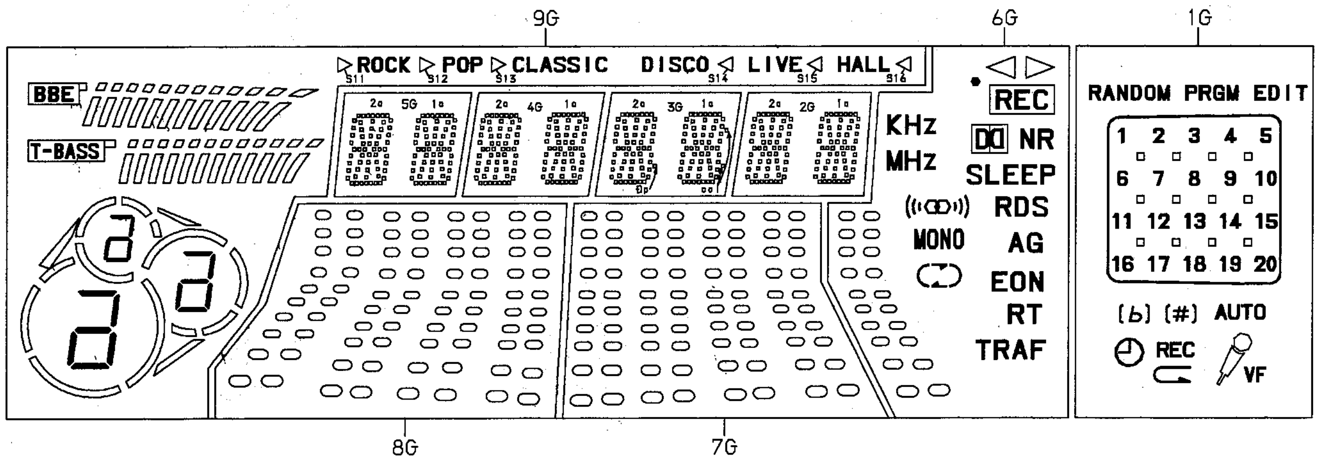
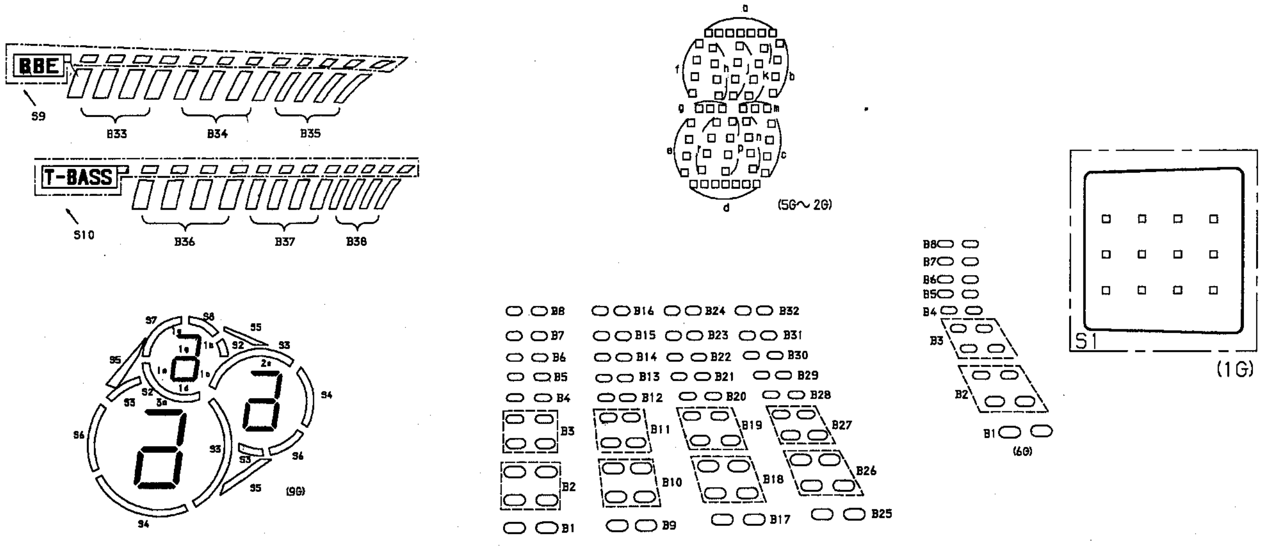
CMBT5551
CSA1362GR
CSD1306E
DTA144WK
RN1404
RT1N141C
RT1N144C
RT1P141C
RT1P144C

FL GRID ASSIGNMENT & ANODE CONNECTION

GRID ASSIGNMENT

FL, BJ530 GK


9G
6G
1G
BBE
T-BASS
ROCK
POP
CLASSIC
DISCO
LIVE
HALL
S11
S12
S13
S14
S15
S16
2a 5G 1a
2a 4G 1a
2a 3G 1a
2a 2G 1a
KHz
MHz
REC
NR
SLEEP
RDS
MONO
AG
EON
RT
TRAF
RANDOM PRGM EDIT
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
(♭) (#) AUTO
REC
VF
8G
7G

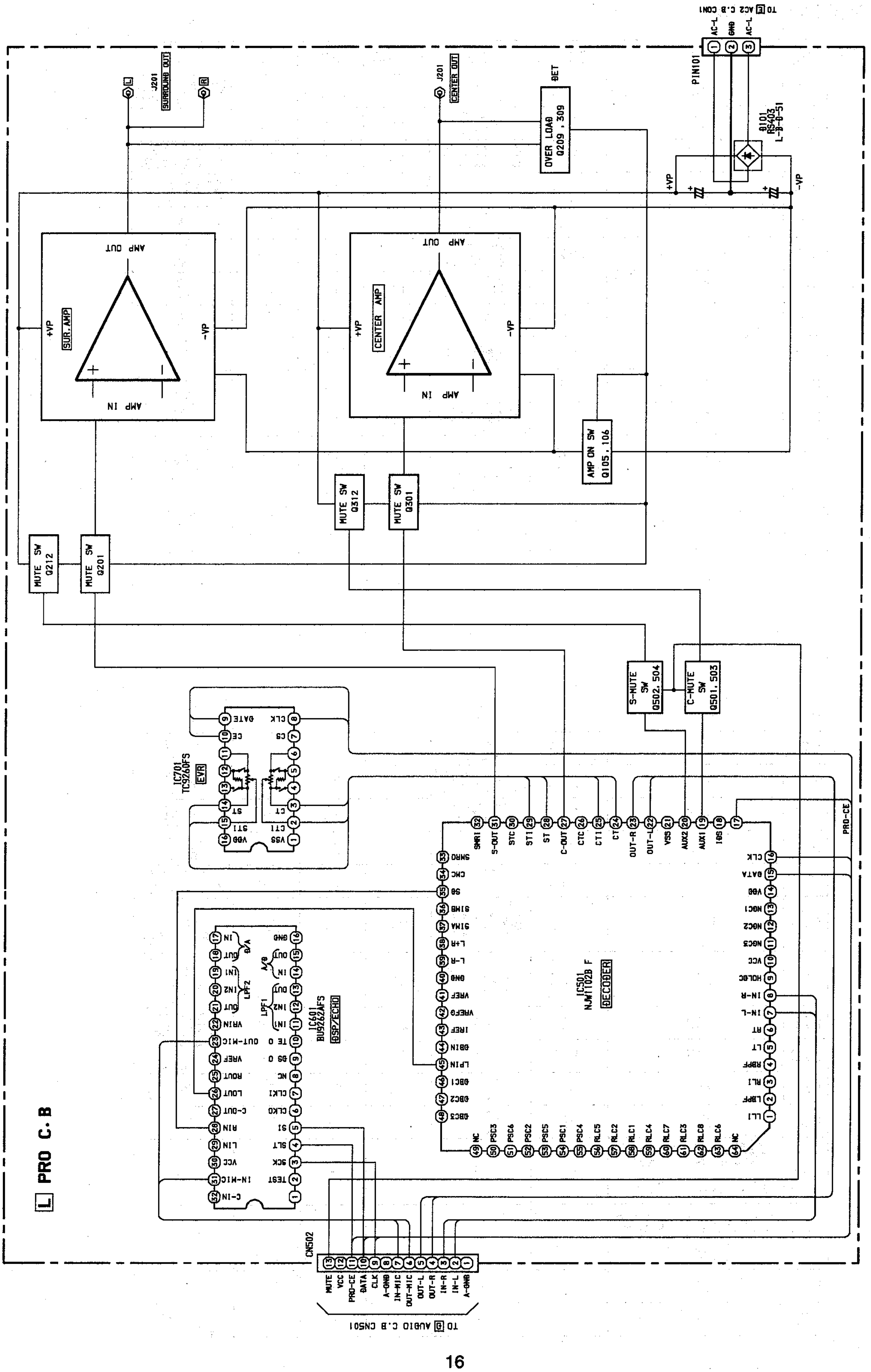

BBE
S9
B33
B34
B35
T-BASS
S10
B36
B37
B38
a
b
c
d
e
f
g
h
k
m
n
p
(5G~2G)
S1
B1
B2
B3
B4
B5
B6
B7
B8
(6G)
(1G)
S2
S3
S4
S5
S6
S7
S8
(9G)
B9
B10
B11
B12
B13
B14
B15
B16
B17
B18
B19
B20
B21
B22
B23
B24
B25
B26
B27
B28
B29
B30
B31
B32

[8G, 7G]

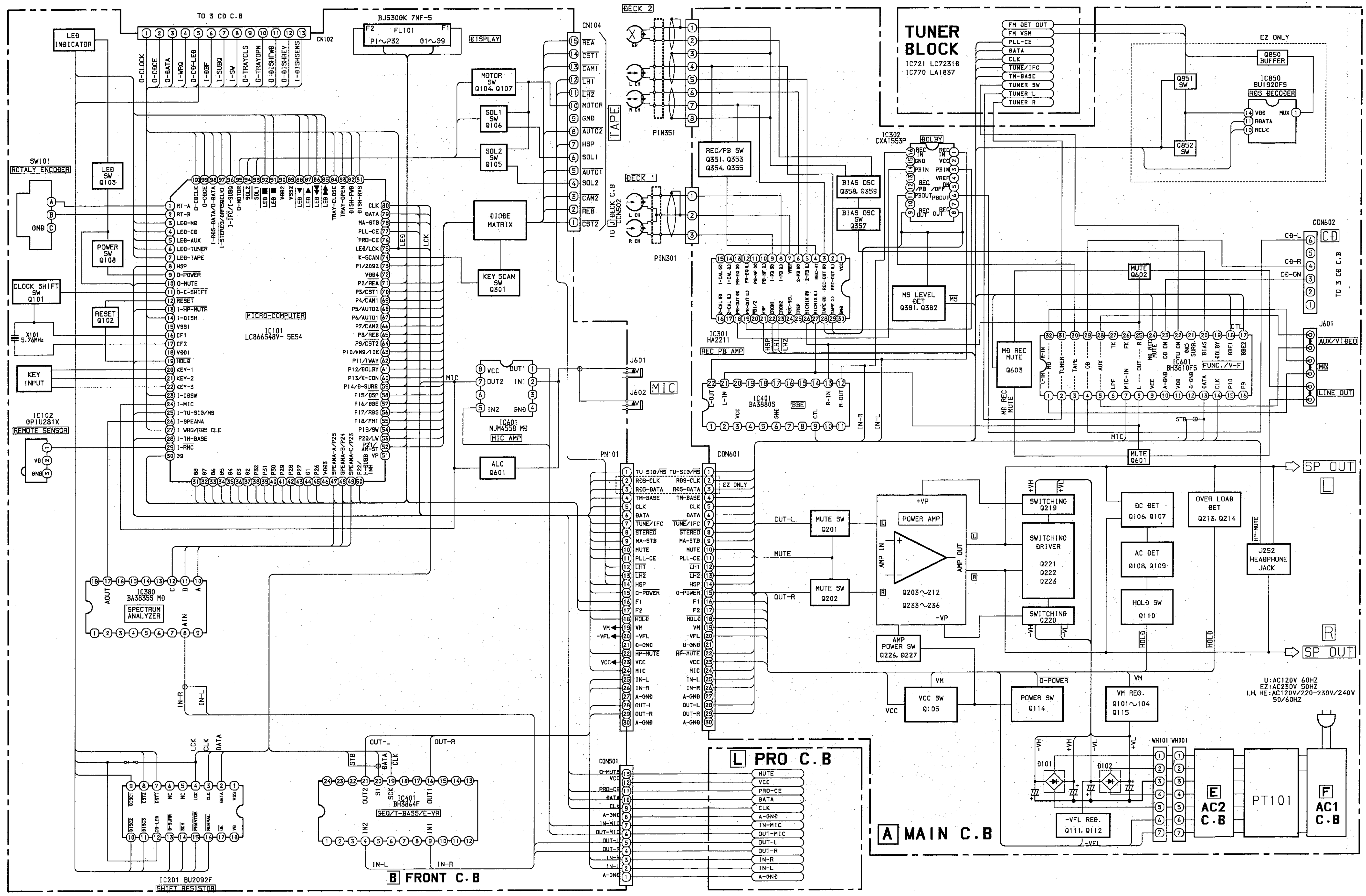
ANODE CONNECTION

	9G	8G, 7G	6G	5G, 4G	3G	2G	1G
P1	S8	B32	▷	-	col (down)	-	RANDOM
P2	S2	B24	◁	1d	1d	1d	-
P3	1b	B16	SLEEP	1n	1n	1n	PRGM
P4	1c	B8	B8	1p	1p	1p	EDIT
P5	1e	B31	○	1r	1r	1r	1
P6	1a, 1d, 1g	B23	REC	1e	1e	1e	2
P7	2b	B15	KHz	1c	1c	1c	3
P8	2c	B7	B7	1g	1g	1g	4
P9	2e	B30	MHz	1m	1m	1m	5
P10	2a, 2d, 2g	B22	-	1f	1f	1f	6
P11	3b	B14	DD NR	1b	1b	1b	7
P12	3c	B6	B6	1k	1k	1k	8
P13	3e	B29	RDS	1j	1j	1j	9
P14	3a, 3d, 3g	B21	-	1h	1h	1h	10
P15	S3	B13	-	1a	1a	1a	11
P16	S5	B5	B5	-	col(up)	-	12
P17	S7	B28	-	-	Đp	-	13
P18	S4	B20	-	2d	2d	2d	14
P19	S6	B12	-	2n	2n	2n	15
P20	S16	B4	B4	2p	2p	2p	16
P21	S15	B27	AG	2r	2r	2r	17
P22	S14	B19	((∞))	2e	2e	2e	18
P23	S13	B11	EON	2c	2c	2c	19
P24	S12	B3	B3	2g	2g	2g	20
P25	S11	B26	RT	2m	2m	2m	AUTO
P26	B36	B18	MONO	2f	2f	2f	🎤 VF
P27	B37	B10	TRAF	2b	2b	2b	◷
P28	B38	B2	B2	2k	2k	2k	REC
P29	B33	B25	)	2j	2j	2j	⊂→
P30	B34	B17	⇄	2h	2h	2h	((#))
P31	B35	B9	(	2a	2a	2a	((b))
P32	ROCK POP CLASSIC S10	B1	B1	-	-	-	S1
P33	DISCO LIVE HALL	-	-	-	-	-	-
P34	S9	-	-	-	-	-	-
P35	-	-	-	-	-	-	♭ #

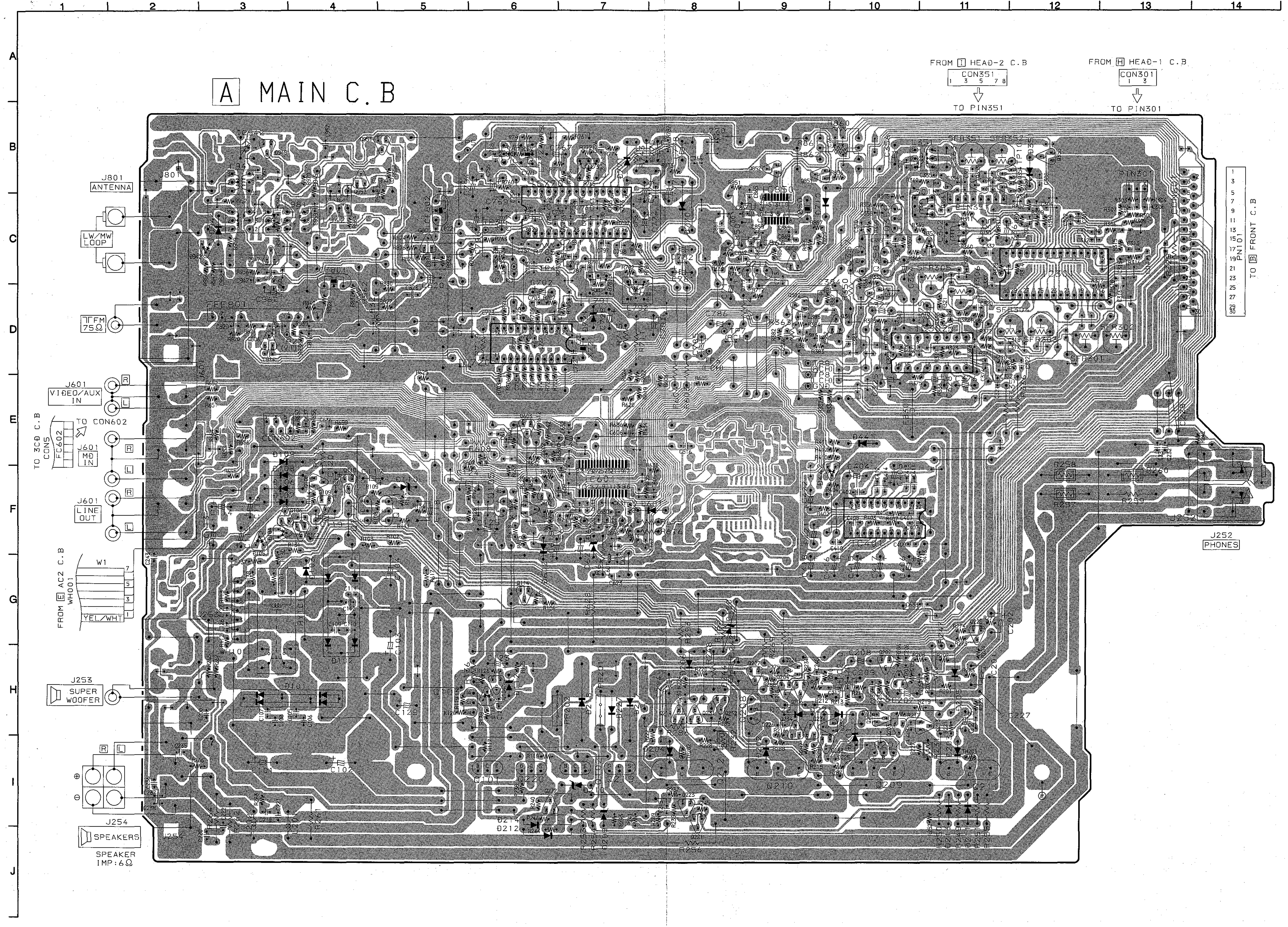
BLOCK DIAGRAM – 1 (PROLOGIC)


L PRO C.B
TO E AC2 C.B CON1
PIN101
AC-L
GND
AC-L
D101
RS403
L-B-D-51
+VP
-VP
J201
SURROUND OUT
L
R
CENTER OUT
OVER LOAD
Q209 , 309
DET
SUR.AMP
CENTER AMP
AMP IN
AMP OUT
AMP ON SW
Q105 , 106
MUTE SW
Q212
MUTE SW
Q201
MUTE SW
Q312
MUTE SW
Q301
S-MUTE SW
Q502, 504
C-MUTE SW
Q501, 503
IC701
TC9260FS
EVR
VSS
CT1
CT
CS
CLK
VDD
ST1
ST
CE
DATE
IC501
NJW1102B F
DECODER
LL1
LBPF
RL1
RBPF
LT
RT
IN-L
IN-R
HOLDC
VCC
NGC3
NGC2
NGC1
VDD
DATA
CLK
IBS
AUX1
AUX2
VSS
OUT-L
OUT-R
CT
CT1
CTC
C-OUT
ST
ST1
STC
S-OUT
SWR1
SWRO
CMC
SD
SIMB
SIMA
L+R
L-R
GND
VREF
VREFG
IREF
DBIN
LPIN
DBC1
DBC2
DBC3
NC
PSC3
PSC6
PSC2
PSC5
PSC1
PSC4
RLC5
RLC2
RLC1
RLC4
RLC7
RLC3
RLC8
RLC6
PRO-CE
IC601
BU9262AFS
DSP/ECHO
TEST
SCK
SLT
SI
CLKO
CLKI
NC
DS O
TE O
IN1
IN2
OUT
LPF1
IN
OUT
A/D
GND
C-IN
IN-MIC
VCC
LIN
RIN
C-OUT
LOUT
ROUT
VREF
OUT-MIC
VRIN
OUT
IN2
IN1
LPF2
OUT
IN
D/A
CN502
MUTE
VCC
PRO-CE
DATA
CLK
A-GND
IN-MIC
OUT-MIC
OUT-L
OUT-R
IN-R
IN-L
A-GND
TO D AUDIO C.B CN501

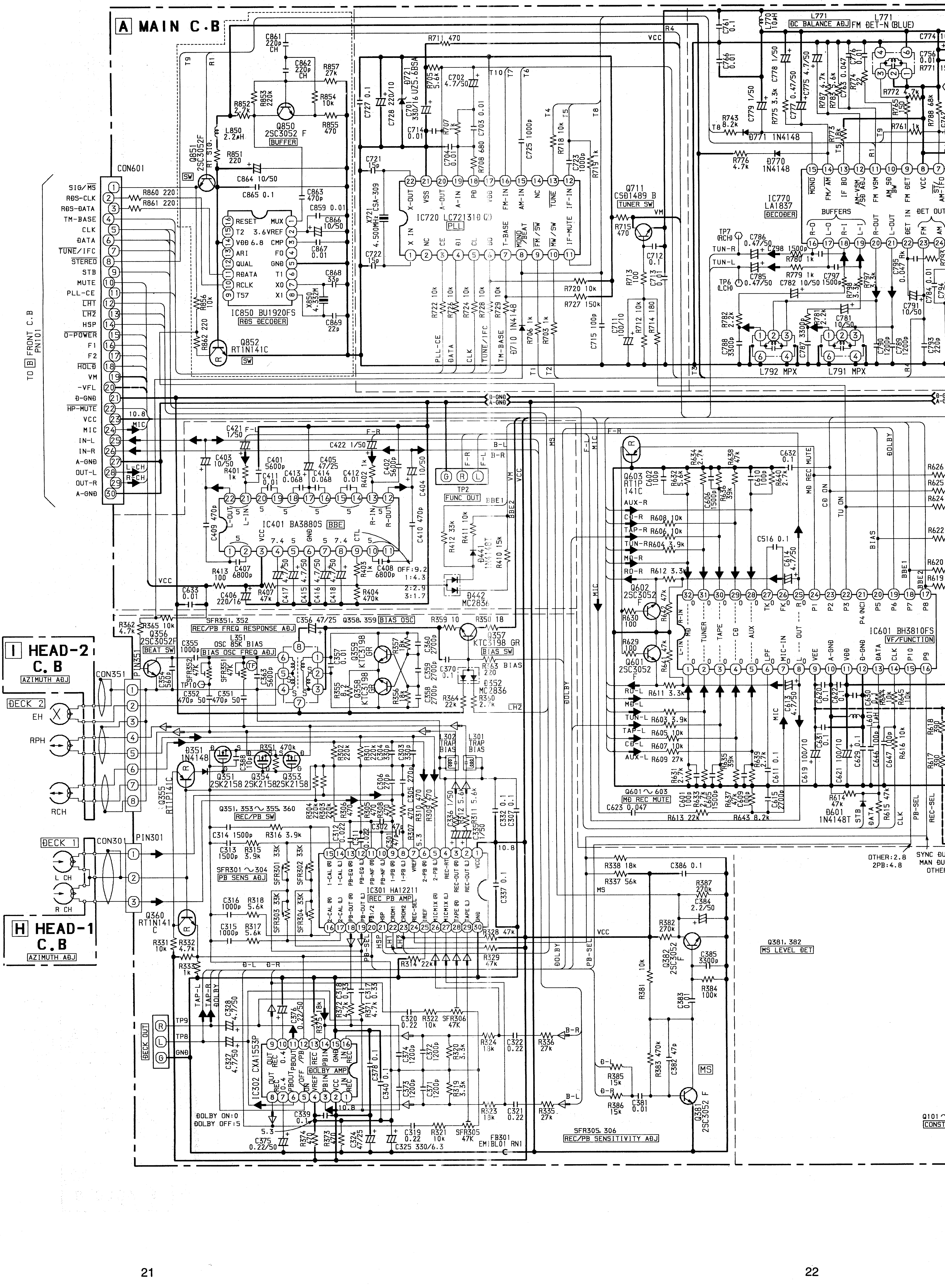
BLOCK DIAGRAM – 2 (MAIN / FRONT)

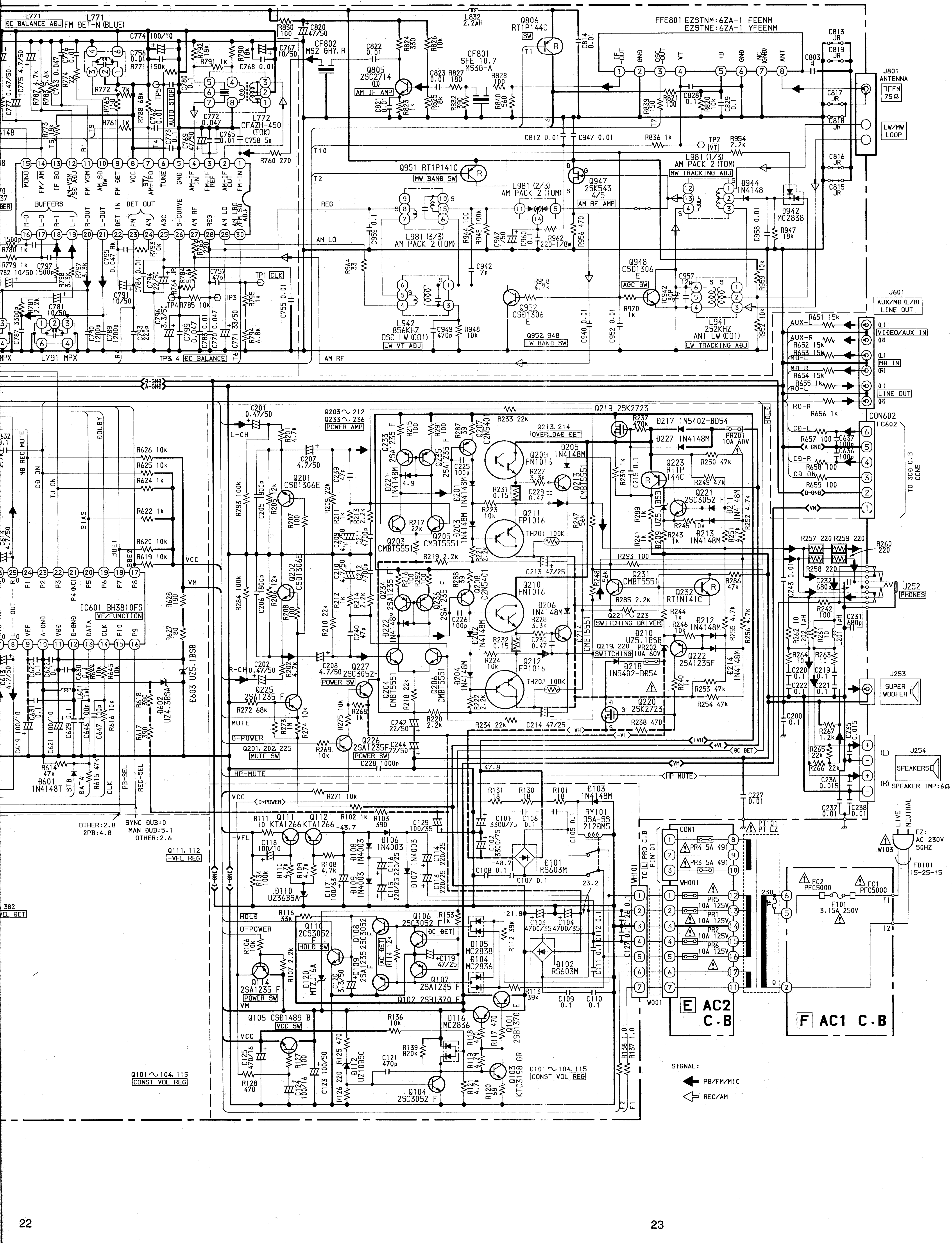

TO 3 CD C.B
CN102
LED INDICATOR
BJ530GK 7NF-5
FL101
DISPLAY
SW101
ROTALY ENCODER
LED SW Q103
POWER SW Q108
CLOCK SHIFT SW Q101
RESET Q102
X101 5.76MHz
KEY INPUT
IC102 GP1U281X
REMOTE SENSOR
MICRO-COMPUTER
IC101 LC866548V-5E54
MOTOR SW Q104, Q107
SOL1 SW Q106
SOL2 SW Q105
DIODE MATRIX
KEY SCAN SW Q301
IC601 NJM4558 MD
MIC AMP
ALC Q601
CN104
TAPE
TO DECK C.B CON502
DECK 2
DECK 1
PIN351
PIN301
J601
J602
MIC
PN101
CON601
IC380 BA3835S MD
SPECTRUM ANALYZER
IC201 BU2092F
SHIFT RESISTOR
IC401 BH3864F
GEQ/T-BASS/E-VR
B FRONT C.B
CON501
L PRO C.B
TUNER BLOCK
IC721 LC72310
IC770 LA1837
EZ ONLY
Q850 BUFFER
Q851 SW
Q852 SW
IC850 BU1920FS
RDS DECODER
IC302 CXA1553P
DOLBY
REC/PB SW Q351, Q353 Q354, Q355
BIAS OSC Q358, Q359
BIAS OSC SW Q357
IC301 HA2211
REC PB AMP
MS LEVEL DET Q381, Q382
IC401 BA3880S
BBE
MD REC MUTE Q603
MUTE Q602
MUTE Q601
IC601 BH3810FS
FUNC./V-F
CON602
TO 3 CD C.B
AUX/VIDEO
MD
LINE OUT
SP OUT L
SP OUT R
MUTE SW Q201
MUTE SW Q202
POWER AMP
Q203~212
Q233~236
AMP POWER SW Q226, Q227
SWITCHING Q219
SWITCHING DRIVER Q221 Q222 Q223
SWITCHING Q220
DC DET Q106, Q107
AC DET Q108, Q109
HOLD SW Q110
OVER LOAD DET Q213, Q214
J252 HEADPHONE JACK
VCC SW Q105
POWER SW Q114
VM REG. Q101~104 Q115
-VFL REG. Q111, Q112
D101
D102
WH101
WH001
E AC2 C.B
PT101
F AC1 C.B
A MAIN C.B
U:AC120V 60HZ
EZ:AC230V 50HZ
LH, HE:AC120V/220-230V/240V 50/60HZ

WIRING – 1 (MAIN : EZ)

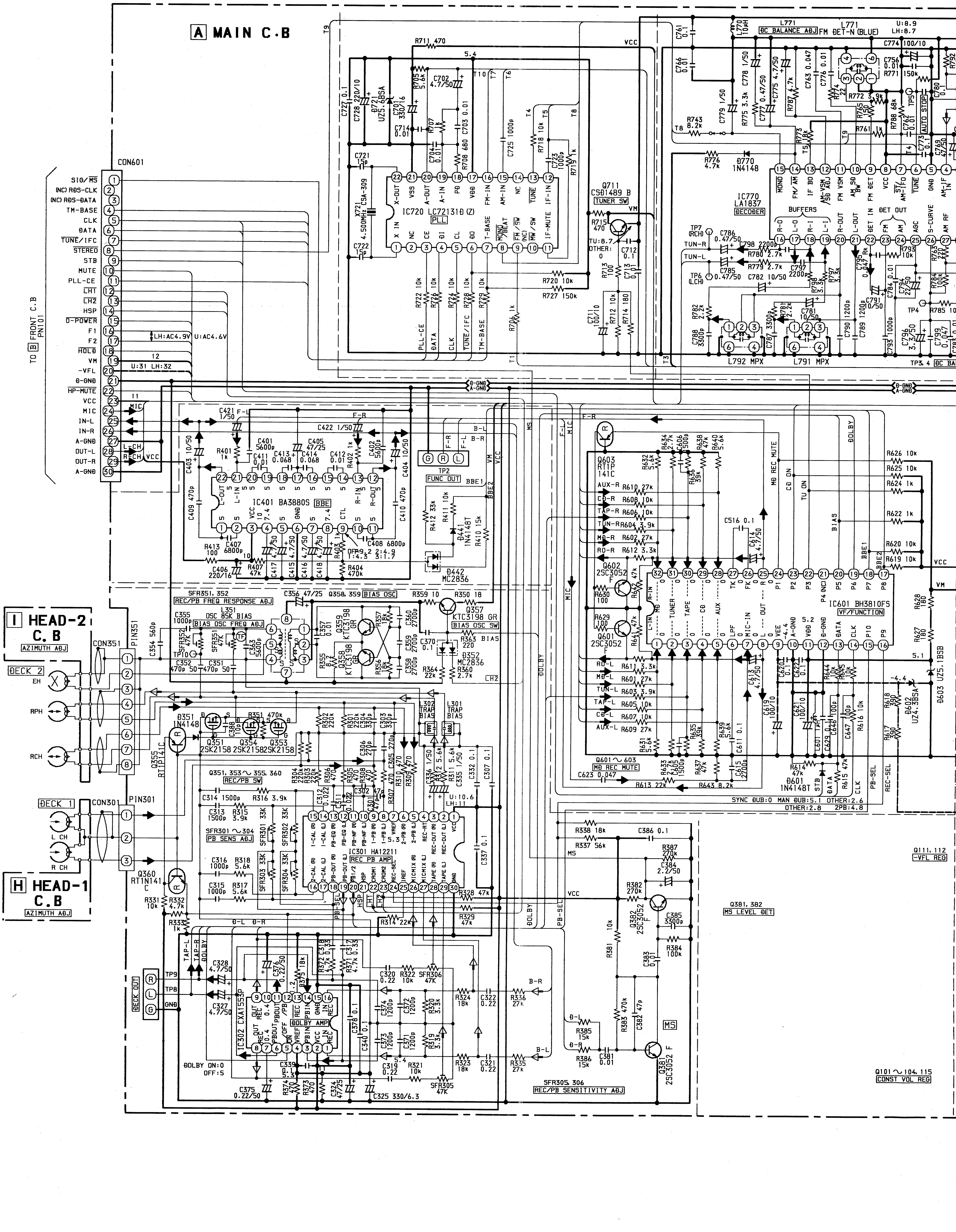

A MAIN C.B
FROM I HEAD-2 C.B
CON351
1 3 5 7 8
TO PIN351
FROM H HEAD-1 C.B
CON301
1 3
TO PIN301
TO B FRONT C.B
PN101
J801
ANTENNA
LW/MW
LOOP
FM
75Ω
J601
VIDEO/AUX
IN
R
L
TO 3CD C.B
CON5
FC602
TO CON602
J601
MD
IN
J601
LINE
OUT
FROM E AC2 C.B
WH001
W1
YEL/WHT
J253
SUPER
WOOFER
J254
SPEAKERS
SPEAKER
IMP:6Ω
J252
PHONES
1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J

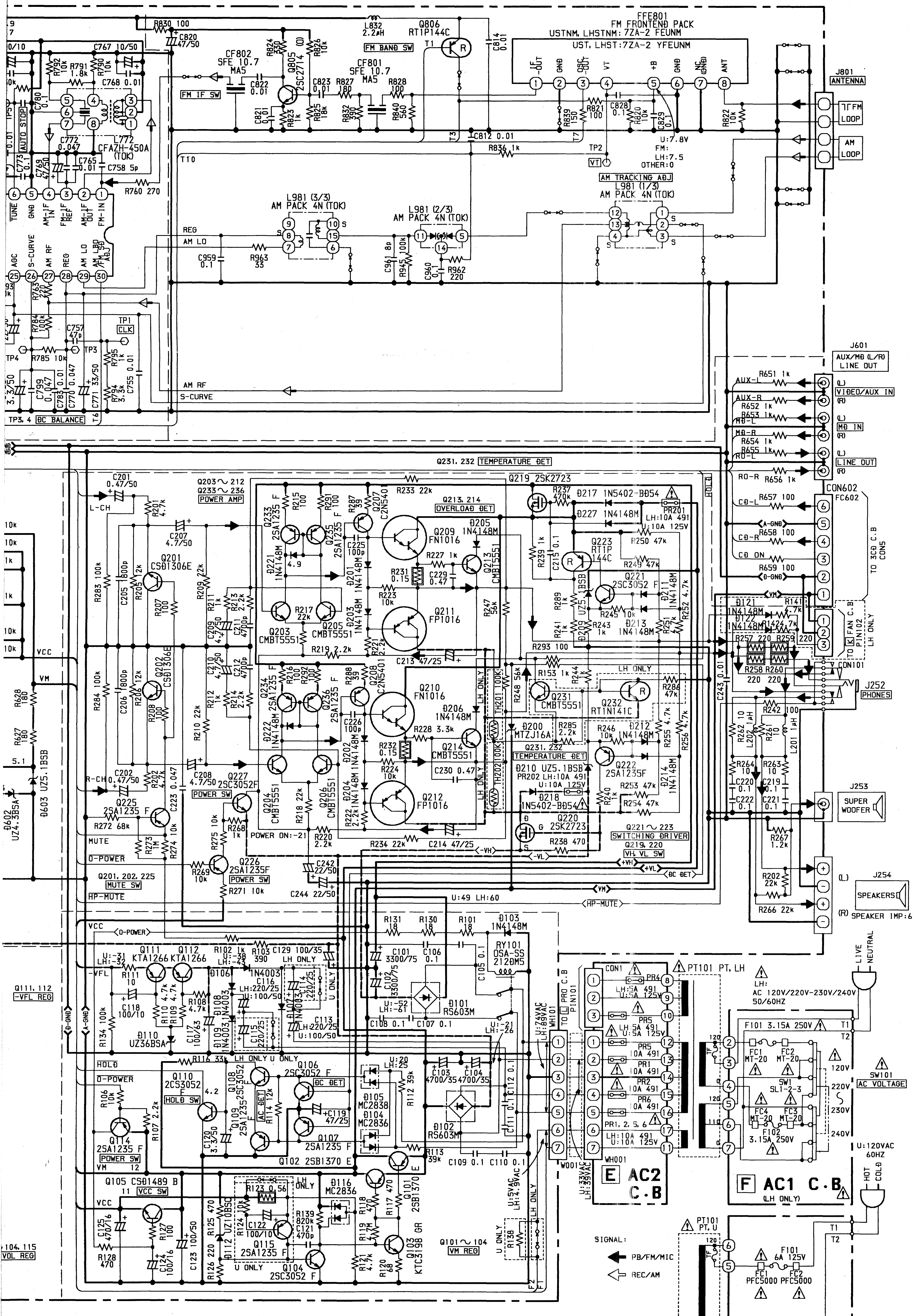
SCHEMATIC DIAGRAM – 1 (MAIN : EZ)


A MAIN C.B
CON601
SIG/MS
RDS-CLK
RDS-DATA
TM-BASE
CLK
DATA
TUNE/IFC
STEREO
STB
MUTE
PLL-CE
LH1
LH2
HSP
D-POWER
F1
F2
HOLD
VM
-VFL
D-GND
HP-MUTE
VCC
MIC
IN-L
IN-R
A-GND
OUT-L
OUT-R
A-GND
TO B FRONT C.B PN101
IC850 BU1920FS
RDS DECODER
Q850 2SC3052 F
BUFFER
Q851 2SC3052F
SW
Q852 RT1N141C
SW
IC720 LC72131D
PLL
X721 4.500MHz CSA-309
X850 4.332M
Q711 CSD1489 B
TUNER SW
IC770 LA1837
DECODER
BUFFERS
L771
DC BALANCE ADJ
L771 FM DET-N (BLUE)
L792 MPX
L791 MPX
TP7 (RCH)
TP6 (LCH)
TUN-R
TUN-L
IC401 BA3880S
BBE
TP2
FUNC OUT
D442 MC2836
IC601 BH3810FS
VF/FUNCTION
Q601~603
MD REC MUTE
Q602 2SC3052
Q601 2SC3052
Q603 RT1P141C
AUX-R
CD-R
TAP-R
TUN-R
MD-R
RO-R
RO-L
MD-L
TUN-L
TAP-L
CD-L
AUX-L
MD REC MUTE
CD ON
TU ON
BIAS
DOLBY
MIC
PB-SEL
REC-SEL
D601 1N4148T
OTHER:2.8
2PB:4.8
I HEAD-2 C.B
AZIMUTH ADJ
DECK 2
EH
RPH
RCH
CON351
PIN351
SFR351, 352
REC/PB FREQ RESPONSE ADJ
L351 OSC 85K BIAS
BIAS OSC FREQ ADJ
Q356 2SC3052F
BEAT SW
Q358, 359 BIAS OSC
Q357 KTC3198 GR
BIAS SW
D352 MC2836
LH2
L302 TRAP BIAS
L301 TRAP BIAS
Q351, 353~355, 360
REC/PB SW
Q351 2SK2158
Q354 2SK2158
Q353 2SK2158
Q355 RT1P141C
D351 1N4148
SFR301~304
PB SENS ADJ
IC301 HA12211
REC PB AMP
H HEAD-1 C.B
AZIMUTH ADJ
DECK 1
L CH
R CH
CON301
PIN301
Q360 RT1N141C
DECK OUT
TP9
TP8
GND
IC302 CXA1553P
DOLBY AMP
DOLBY ON:0
DOLBY OFF:5
FB301 EMIBL01 RN1
SFR305, 306
REC/PB SENSITIVITY ADJ
Q381, 382
MS LEVEL DET
Q381 2SC3052 F
Q382 2SC3052 F
MS
Q101~
CONST

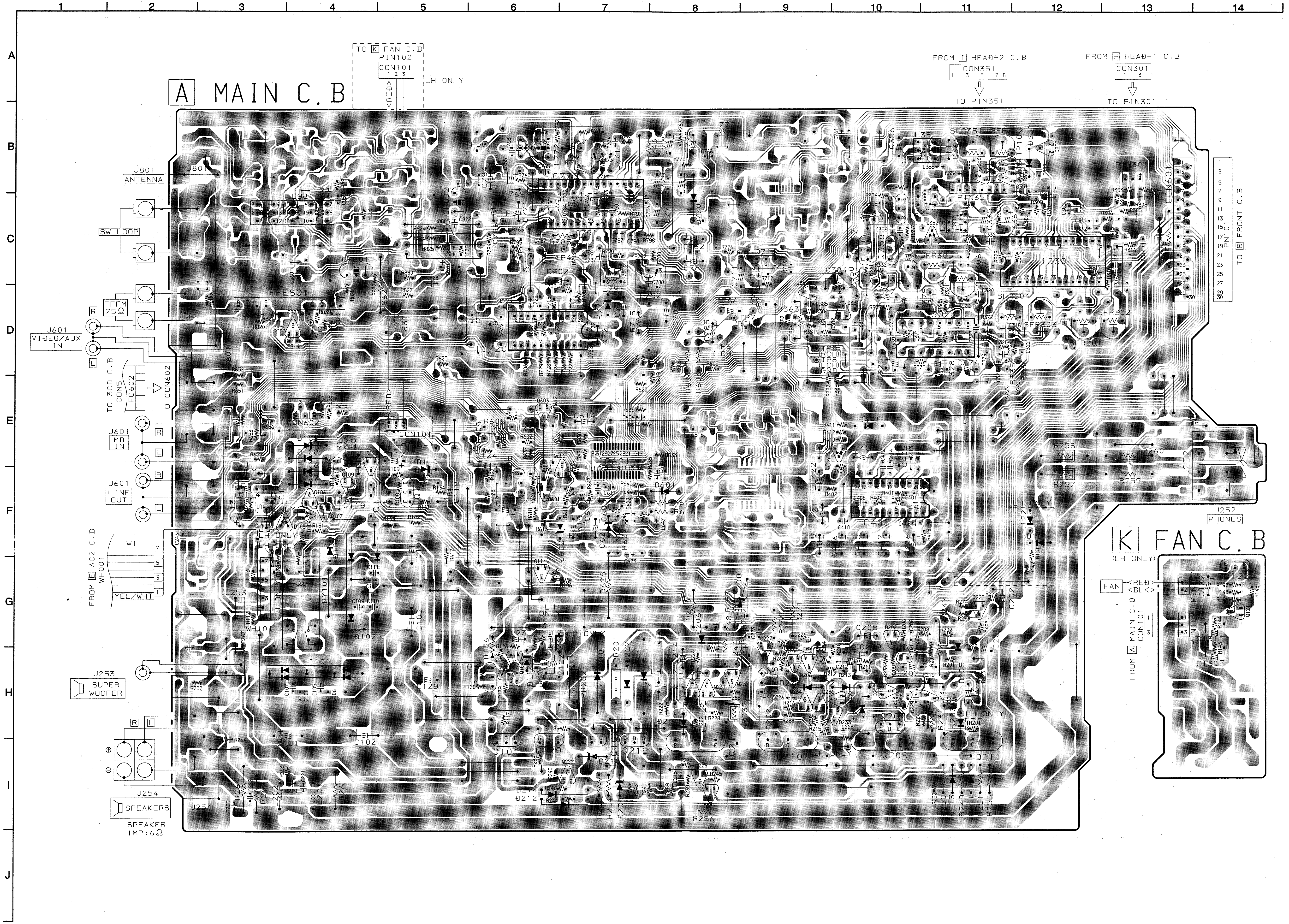

FFE801 EZSTNM:6ZA-1 FEENM
EZSTNE:6ZA-1 YFEENM
J801 ANTENNA
FM 75Ω
LW/MW LOOP
L771 DC BALANCE ADJ
L771 FM DET-N (BLUE)
L772 CFAZH-450 (TOK)
CF801 SFE 10.7 MS3G-A
CF802 MS2 GHY. R
Q805 2SC2714 (O)
AM IF AMP
Q806 RT1P144C
SW
Q951 RT1P141C
MW BAND SW
Q947 2SK543 4/5
AM RF AMP
L981 (1/3) AM PACK 2 (TOM)
MW TRACKING ADJ
L981 (2/3) AM PACK 2 (TOM)
L981 (3/3) AM PACK 2 (TOM)
D944 1N4148
D942 MC2838
Q948 CSD1306 E
AGC SW
Q952 CSD1306 E
Q952, 948
LW BAND SW
L942 856KHZ OSC LW (C01)
LW VT ADJ
L941 252KHZ ANT LW (C01)
LW TRACKING ADJ
J601 AUX/MD (L/R) LINE OUT
VIDEO/AUX IN
MD IN
LINE OUT
CON602 FC602
TO 3CD C.B CONS
AUTO STOP
BUFFERS
DET OUT
L791 MPX
TP1 CLK
TP3, 4 DC BALANCE
IC601 BH3810FS
VF/FUNCTION
D603 UZ5.1BSB
D602 UZ4.3BSA
D601 1N4148T
Q201 CSD1306E
Q202 CSD1306E
Q203～212
Q233～236
POWER AMP
Q213, 214
OVERLOAD DET
Q209 FN1016
Q210 FN1016
Q211 FP1016
Q212 FP1016
TH201 100K
TH202 100K
Q207 C2N5401
Q208 C2N5401
Q203 CMBT5551
Q204 CMBT5551
Q205 CMBT5551
Q206 CMBT5551
Q213 CMBT5551
Q214 CMBT5551
Q219 2SK2723
Q220 2SK2723
D217 1N5402-BD54
D218 1N5402-BD54
PR201 10A 60V
PR202 10A 60V
Q223 RT1P144C
Q221 2SC3052 F
Q222 2SA1235F
Q231 CMBT5551
Q232 RT1N141C
Q221～223
SWITCHING DRIVER
Q219, 220
SWITCHING
Q225 2SA1235 F
Q226 2SA1235F
Q227 2SC3052F
POWER SW
Q201, 202, 225
MUTE SW
J252 PHONES
J253 SUPER WOOFER
J254 SPEAKERS
SPEAKER IMP:6Ω
HP-MUTE
Q111 KTA1266
Q112 KTA1266
Q111, 112
-VFL REG
RY101 DSA-SS 212DM5
D101 RS603M
D102 RS603M
D105 MC2838
D104 MC2836
D116 MC2836
Q106 2SC3052 F
DC DET
Q108 2SC3052
AC DET
Q110 2SC3052
HOLD SW
Q107 2SA1235 F
Q109 2SA1235
Q114 2SA1235 F
POWER SW
Q105 CSD1489 B
VCC SW
Q102 2SB1370 F
Q101 2SB1370 E
Q103 KTC3198 GR
Q104 2SC3052 F
Q101～104, 115
CONST VOL REG
D112 UZ10BSC
D120 MTZJ16A
D110 UZ36BSA
OTHER:2.8
2PB:4.8
SYNC DUB:0
MAN DUB:5.1
OTHER:2.6
CON1
WH001
WH101
W001
TO PRO C.B PIN101
PR4 5A 491
PR3 5A 491
PR5 10A 125V
PR1 10A 125V
PR2 10A 125V
PR6 10A 125V
PT101 PT-EZ
E AC2 C.B
F AC1 C.B
FC1 PFC5000
FC2 PFC5000
F101 3.15A 250V
FB101 15-25-15
W103
EZ: AC 230V 50HZ
LIVE
NEUTRAL
SIGNAL:
PB/FM/MIC
REC/AM

SCHEMATIC DIAGRAM – 2 (MAIN : LH, U)


A MAIN C.B
CON601
SIG/MS
(NC) RDS-CLK
(NC) RDS-DATA
TM-BASE
CLK
DATA
TUNE/IFC
STEREO
STB
MUTE
PLL-CE
LH1
LH2
HSP
D-POWER
F1
F2
HOLD
VM
-VFL
D-GND
HP-MUTE
VCC
MIC
IN-L
IN-R
A-GND
OUT-L
OUT-R
A-GND
TO B FRONT C.B PN101
LH:AC4.9V U:AC4.6V
U:31 LH:32
IC720 LC72131D (Z)
PLL
X721 4.500MHz CSA-309
Q711 CSD1489 B
TUNER SW
IC770 LA1837
DECODER
BUFFERS
L792 MPX
L791 MPX
L771 DC BALANCE ADJ
L771 FM DET-N (BLUE)
U:8.9 LH:8.7
AUTO STOP
IC401 BA3880S
BBE
TP2 FUNC OUT
D441 1N4148T
D442 MC2836
IC601 BH3810FS
VF/FUNCTION
Q601～603 MD REC MUTE
Q602 2SC3052
Q601 2SC3052
Q603 RT1P141C
SYNC DUB:0 MAN DUB:5.1 OTHER:2.6
OTHER:2.8 2PB:4.8
D603 UZ5.1BSB
D602 UZ4.3BSA
D601 1N4148T
I HEAD-2 C.B
AZIMUTH ADJ
DECK 2
EH
RPH
RCH
CON351
PIN351
SFR351, 352
REC/PB FREQ RESPONSE ADJ
Q358, 359 BIAS OSC
L351 OSC 85K BIAS
BIAS OSC FREQ ADJ
Q357 KTC3198 GR
BIAS OSC SW
D352 MC2836
L301 TRAP BIAS
L302 TRAP BIAS
Q351, 353～355, 360
REC/PB SW
D351 1N4148
Q351 2SK2158
Q354 2SK2158
Q353 2SK2158
Q355 RT1P141C
IC301 HA12211
REC PB AMP
SFR301～304
PB SENS ADJ
U:10.6 LH:11
DECK 1
L CH
R CH
CON301
PIN301
Q360 RT1N141C
H HEAD-1 C.B
AZIMUTH ADJ
DECK OUT
TP9
TP8
GND
IC302 CXA1553P
DOLBY AMP
DOLBY ON:0 OFF:5
SFR305, 306
REC/PB SENSITIVITY ADJ
Q381, 382
MS LEVEL DET
Q382 2SC3052
Q381 2SC3052
MS
Q111, 112
-VFL REG
Q101～104, 115
CONST VOL REG


FFE801
FM FRONTEND PACK
USTNM, LHSTNM: 7ZA-2 FEUNM
UST, LHST: 7ZA-2 YFEUNM
IF-OUT
GND
OSC-OUT
VT
+B
GND
NC (GND)
ANT
J801
ANTENNA
FM LOOP
AM LOOP
U: 7.8V
FM:
LH: 7.5
OTHER: 0
AM TRACKING ADJ
L981 (1/3)
AM PACK 4N (TOK)
L981 (2/3)
AM PACK 4N (TOK)
L981 (3/3)
AM PACK 4N (TOK)
Q806
RT1P144C
L832
2.2μH
FM BAND SW
CF801
SFE 10.7
MA5
CF802
SFE 10.7
MA5
Q805
2SC2714 (O)
FM IF SW
L772
CFAZH-450A
(TOK)
AUTO STOP
TUNE
GND
AM-IF IN
FM-IF REF
AM-IF OUT
FM-IN
AGC
S-CURVE
AM RF
REG
AM LO
AM LBD ADJ
TP1
CLK
TP3
TP4
TP2
VT
TP3, 4
BC BALANCE
REG
AM LO
AM RF
S-CURVE
J601
AUX/MD (L/R)
LINE OUT
VIDEO/AUX IN
MD IN
LINE OUT
AUX-L
AUX-R
MD-L
MD-R
RO-L
RO-R
CON602
FC602
CD-L
A-GND
CD-R
CD ON
D-GND
TO 3CD C.B
CON5
TO K FAN C.B
PIN102
LH ONLY
CON101
J252
PHONES
J253
SUPER WOOFER
J254
SPEAKERS
SPEAKER IMP: 6Ω
Q231, 232 TEMPERATURE DET
Q219 2SK2723
Q203～212
Q233～236
POWER AMP
Q213, 214
OVERLOAD DET
Q209 FN1016
Q211 FP1016
Q210 FN1016
Q212 FP1016
Q201 CSD1306E
Q202 CSD1306E
Q203 CMBT5551
Q205 CMBT5551
Q204 CMBT5551
Q206 CMBT5551
Q207 C2N5401
Q208 C2N5401
Q213 CMBT5551
Q214 CMBT5551
Q221 2SC3052 F
Q222 2SA1235F
Q223 RT1P144C
Q231 CMBT5551
Q232 RT1N141C
Q233 2SA1235 F
Q234 2SA1235 F
Q235 2SA1235 F
Q236 2SA1235 F
Q225 2SA1235 F
Q226 2SA1235F
Q227 2SC3052F
POWER SW
Q201, 202, 225
MUTE SW
Q220 2SK2723
Q221～223
SWITCHING DRIVER
Q219, 220
VH, VL SW
D217 1N5402-BD54
D218 1N5402-BD54
D210 UZ5.1BSB
D200 MTZJ16A
PR201
LH: 10A 491
U: 10A 125V
PR202 LH: 10A 491
U: 10A 125V
TH201 100K
TH202 100K
LH ONLY
POWER ON: -21
L-CH
R-CH
VCC
VM
MUTE
D-POWER
HP-MUTE
D603 UZ5.1BSB
D602 UZ4.3BSA
U: 49 LH: 60
Q111 KTA1266
Q112 KTA1266
Q111, 112
-VFL REG
Q110 2SC3052 F
HOLD SW
Q106 2SC3052 F
BC DET
Q107 2SA1235 F
Q108 2SC3052
Q109 2SA1235 F
AC DET
Q114 2SA1235 F
POWER SW
Q105 CSD1489 B
VCC SW
Q104, 115
VOL REG
Q101 2SB1370 E
Q102 2SB1370 E
Q103 KTC3198 GR
Q101～104
VM REG
Q104 2SC3052 F
Q115 2SA1235 F
D101 RS603M
D102 RS603M
D103 1N4148M
D104 MC2836
D105 MC2838
D116 MC2836
D110 UZ36BSA
D112 UZ10BSC
RY101
OSA-SS
212DM5
U ONLY
LH ONLY
HOLD
D-POWER
TO PRO C.B
PIN101
WH101
WH001
CON1
E AC2 C·B
PR1, 2, 5, 6
LH: 10A 491
U: 10A 125V
PT101 PT, LH
PT101 PT, U
LH:
AC 120V/220V-230V/240V
50/60HZ
F101 3.15A 250V
F102 3.15A 250V
FC1 MT-20
FC2 MT-20
FC3 MT-20
FC4 MT-20
SW1 SL1-2-3
SW101
AC VOLTAGE
120V
220V
230V
240V
LIVE
NEUTRAL
U: 120VAC
60HZ
HOT
COLD
F AC1 C·B
(LH ONLY)
F101
6A 125V
PFC5000 PFC5000
R1
2.2M
1/2W
F AC1 C·B
(U ONLY)
SIGNAL:
PB/FM/MIC
REC/AM

WIRING – 2 (MAIN : LH, U)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A
B
C
D
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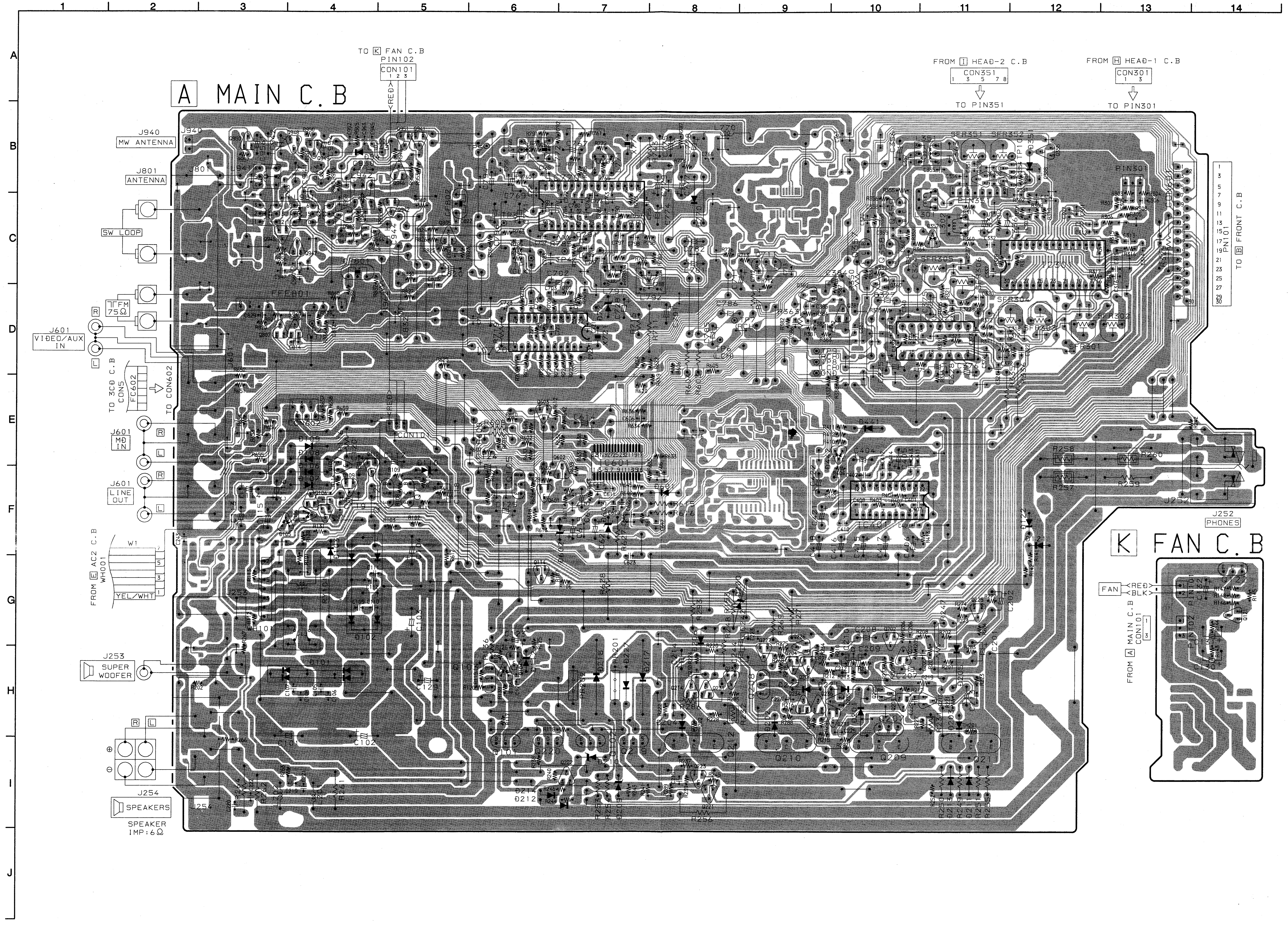
F
G
H
I
J
A MAIN C.B
TO K FAN C.B
PIN102
CON101
1 2 3
<RED>
LH ONLY
FROM I HEAD-2 C.B
CON351
1 3 5 7 8
TO PIN351
FROM H HEAD-1 C.B
CON301
1 3
TO PIN301
PIN101
TO B FRONT C.B
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
30
J801
ANTENNA
SW LOOP
FM 75Ω
R
L
J601
VIDEO/AUX IN
TO 3CD C.B
CON5
FC602
TO CON602
J601
MD IN
J601
LINE OUT
FROM E AC2 C.B
WH001
W1
7
5
3
1
YEL/WHT
J253
SUPER WOOFER
J254
SPEAKERS
SPEAKER IMP : 6Ω
⊕
⊖
J252
PHONES
K FAN C.B
(LH ONLY)
FAN
<RED>
<BLK>
FROM A MAIN C.B
CON101
1
3
PIN101
PIN102
LH ONLY
U ONLY
CON601
CON602
IC601
IC401
IC301
R258
R260
R257
R259
Q210
Q209
Q212
Q211
D101
D102
C101
C102
RY101
CF801
CF802
FFE801
SFR301
SFR302
SFR303
SFR304
SFR305
SFR351
SFR352
L770
J601
J801
J254

WIRING – 3 (MAIN : HE)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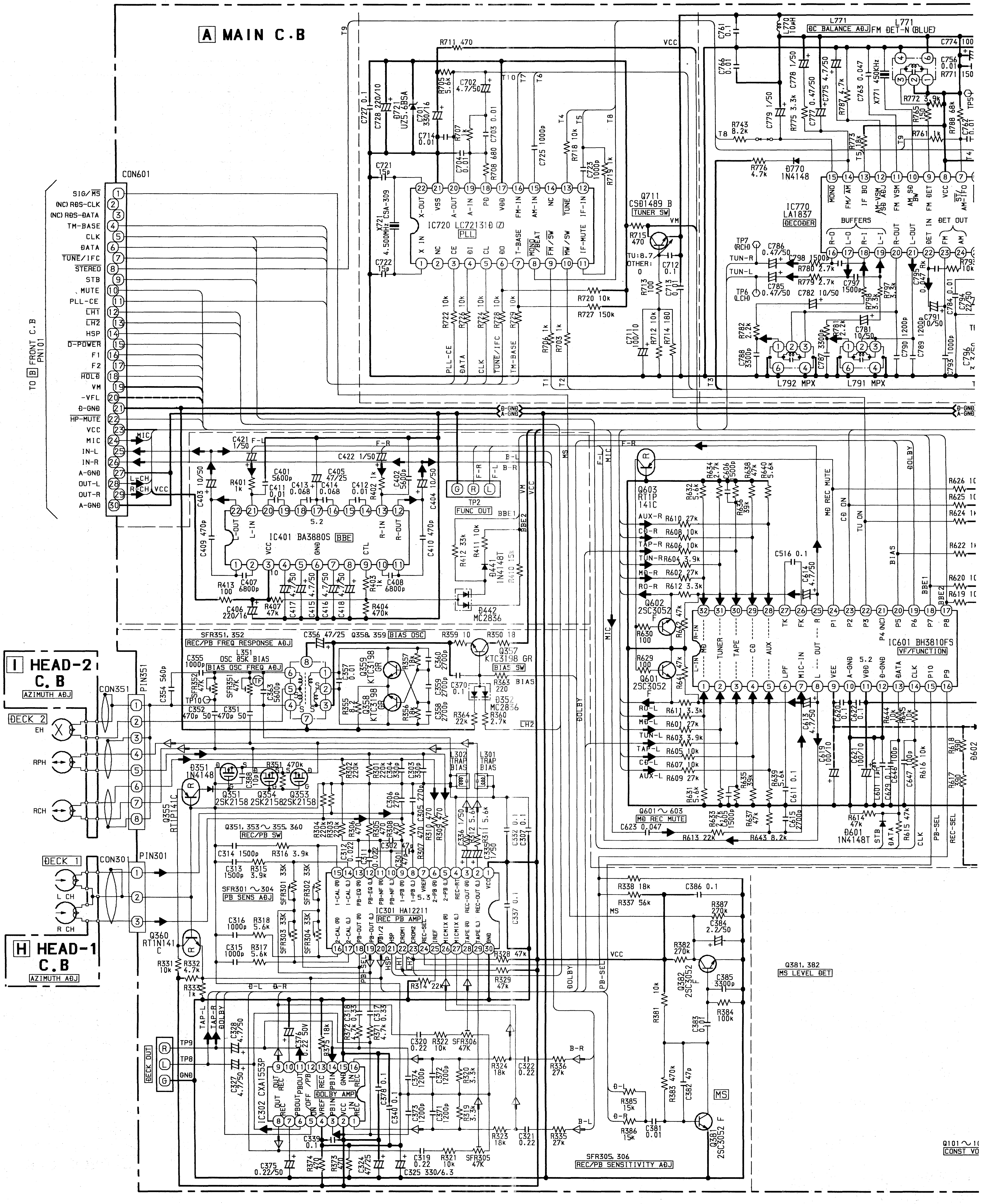
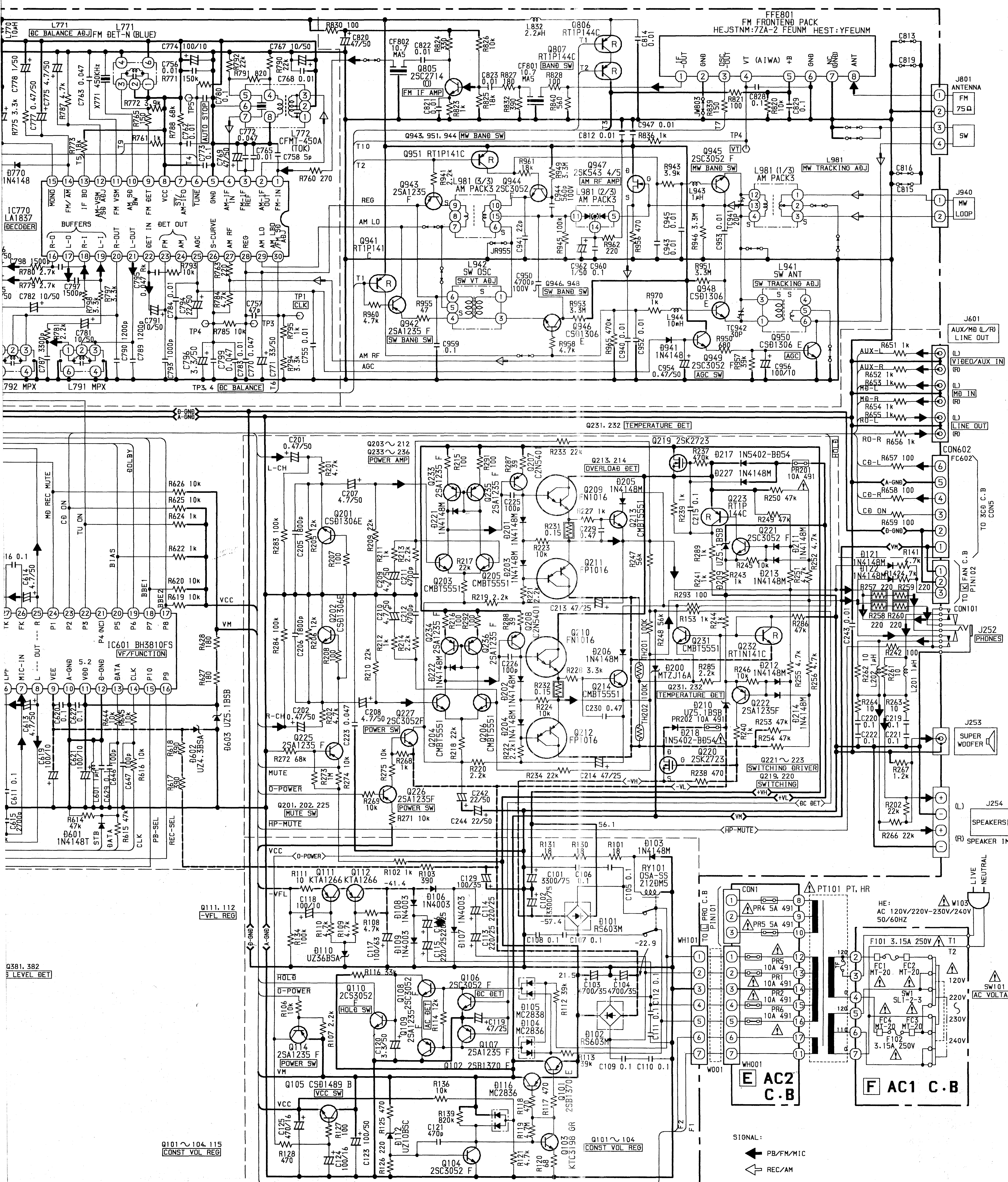
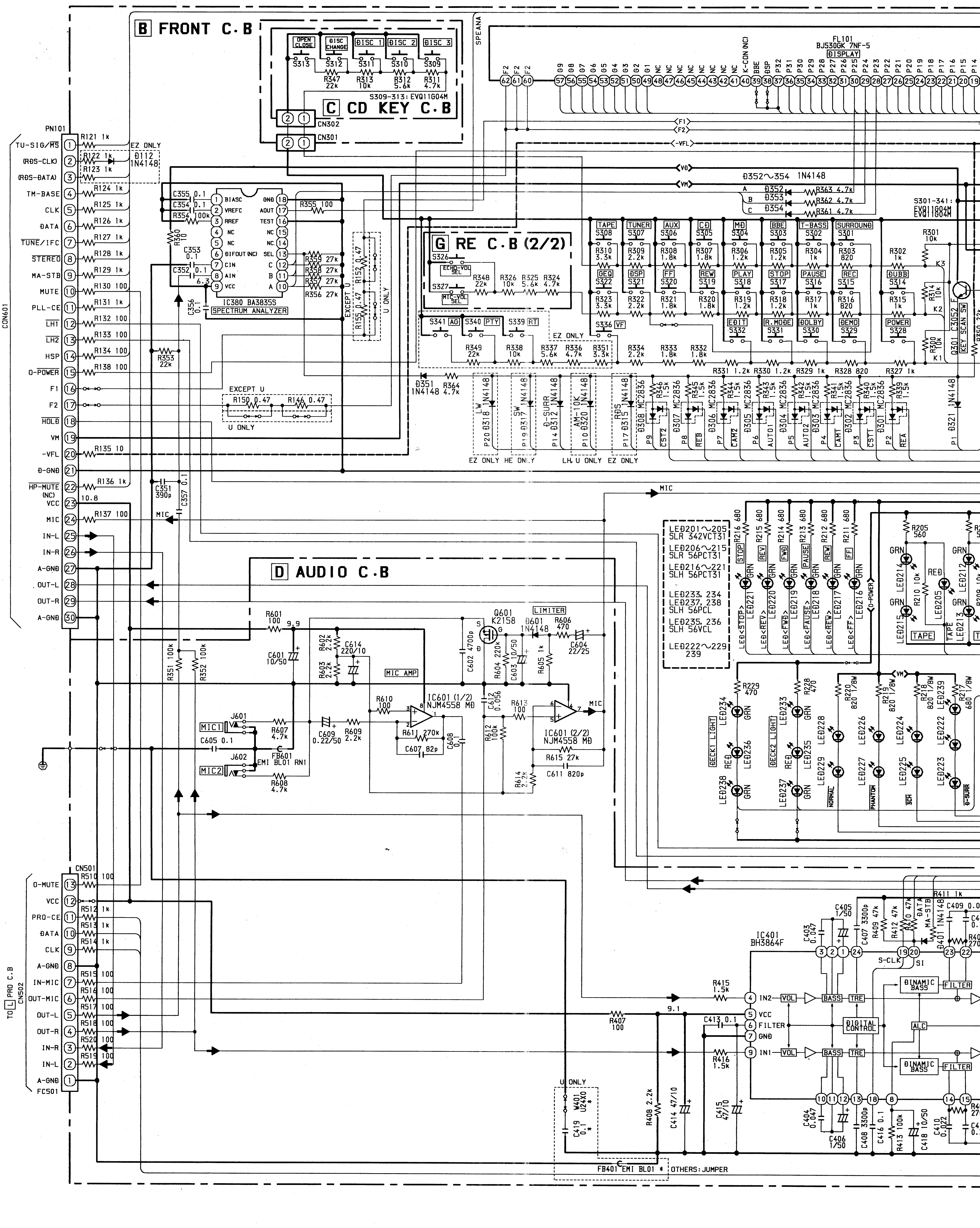
A
B
C
D
E
F
G
H
I
J
A MAIN C.B
TO K FAN C.B
PIN102
CON101
1 2 3
<RED>
FROM I HEAD-2 C.B
CON351
1 3 5 7 8
TO PIN351
FROM H HEAD-1 C.B
CON301
1 3
TO PIN301
PIN101
TO B FRONT C.B
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
30
J940
MW ANTENNA
J801
ANTENNA
SW LOOP
FM 75Ω
J601
VIDEO/AUX IN
R
L
TO 3CD C.B
CON5
FC602
TO CON602
J601
MD IN
J601
LINE OUT
FROM E AC2 C.B
WH001
W1
YEL/WHT
J253
SUPER WOOFER
⊕
⊖
J254
SPEAKERS
SPEAKER IMP:6Ω
J252
PHONES
K FAN C.B
FAN
<RED>
<BLK>
FROM A MAIN C.B
CON101
1
3
PIN102
PIN101
CON601
PIN301
IC301
IC401
IC601
R258
R257
R260
R259

SCHEMATIC DIAGRAM – 3 (MAIN : HE)

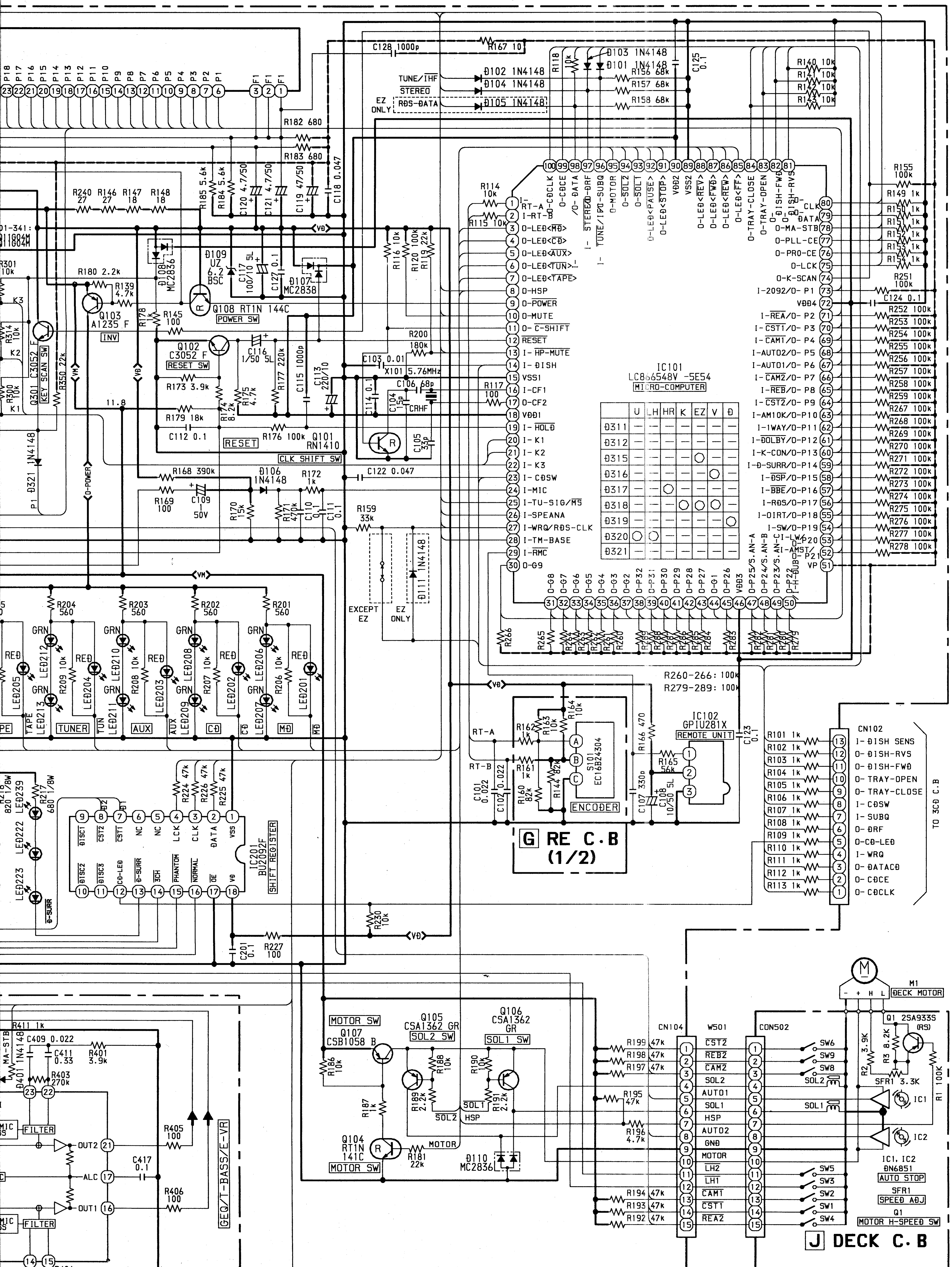

A MAIN C.B
CON601
SIG/MS
(NC) RDS-CLK
(NC) RDS-DATA
TM-BASE
CLK
DATA
TUNE/IFC
STEREO
STB
MUTE
PLL-CE
LH1
LH2
HSP
D-POWER
F1
F2
HOLD
VM
-VFL
D-GND
HP-MUTE
VCC
MIC
IN-L
IN-R
A-GND
OUT-L
OUT-R
A-GND
TO B FRONT C.B PN101
IC720 LC72131D (Z) PLL
X721 4.500MHz CSA-309
D721 UZ5.6BSA
Q711 CSD1489 B TUNER SW
IC770 LA1837 DECODER
BUFFERS
L771 DC BALANCE ADJ
L771 FM DET-N (BLUE)
X771 450KHz
L792 MPX
L791 MPX
D770 1N4148
IC401 BA3880S BBE
TP2 FUNC OUT
D441 1N4148T
D442 MC2836
Q603 RT1P141C
Q602 2SC3052 F
Q601 2SC3052
Q601∼603 MD REC MUTE
IC601 BH3810FS VF/FUNCTION
D601 1N4148T
I HEAD-2 C.B
AZIMUTH ADJ
DECK 2
EH
RPH
RCH
CON351
PIN351
SFR351, 352 REC/PB FREQ RESPONSE ADJ
L351 OSC BIAS BIAS OSC FREQ ADJ
Q358, 359 BIAS OSC
Q359 KTC3198 GR
Q358 KTC3198 GR
Q357 KTC3198 GR BIAS SW
D352 MC2836
L302 TRAP BIAS
L301 TRAP BIAS
D351 1N4148
Q355 RT1P141C
Q351 2SK2158
Q354 2SK2158
Q353 2SK2158
Q351, 353∼355, 360 REC/PB SW
SFR301∼304 PB SENS ADJ
IC301 HA12211 REC PB AMP
DECK 1
CON301
PIN301
L CH
R CH
H HEAD-1 C.B
AZIMUTH ADJ
Q360 RT1N141 C
IC302 CXA1553P DOLBY AMP
DECK OUT
TP9
TP8
GND
SFR305, 306 REC/PB SENSITIVITY ADJ
Q381, 382 MS LEVEL DET
Q382 2SC3052 F
Q381 2SC3052 F
MS
Q101∼1 CONST VO


FFE801
FM FRONTEND PACK
HEJSTNM:7ZA-2 FEUNM HEST:YFEUNM
J801
ANTENNA
FM 75Ω
SW
J940
MW LOOP
L771 DC BALANCE ADJ
L771 FM DET-N (BLUE)
IC770 LA1837 DECODER
BUFFERS
DET OUT
Q805 2SC2714 (O) FM IF AMP
Q806 RT1P144C
Q807 RT1P144C BAND SW
Q943, 951, 944 MW BAND SW
Q951 RT1P141C
Q943 2SA1235 F
Q944 2SC3052
Q947 2SK543 4/5 AM RF AMP
L981 (3/3) AM PACK3
L981 (2/3) AM PACK3
L981 (1/3) AM PACK3
L981 MW TRACKING ADJ
Q945 2SC3052 F MW BAND SW
Q941 RT1P141C
Q942 2SA1235 F SW BAND SW
L942 SW OSC
SW VT ADJ
Q946, 948 SW BAND SW
L941 SW ANT
SW TRACKING ADJ
Q948 CSD1306 E
Q949 2SC3052 AGC SW
Q950 CSD1306 E AGC
L791 MPX
TP3, 4 DC BALANCE
J601 AUX/MD (L/R) LINE OUT
VIDEO/AUX IN
MD IN
LINE OUT
CON602 FC602
TO 3CD C.B CON5
TO K FAN C.B PIN102
CON101
J252 PHONES
J253 SUPER WOOFER
J254 SPEAKERS
SPEAKER IMP:6Ω
IC601 BH3810FS VF/FUNCTION
Q231, 232 TEMPERATURE DET
Q219 2SK2723
Q203～212 Q233～236 POWER AMP
Q213, 214 OVERLOAD DET
Q201 CSD1306E
Q202 CSD1306E
Q209 FN1016
Q210 FN1016
Q211 FP1016
Q212 FP1016
Q223 RT1P144C
Q221 2SC3052 F
Q222 2SA1235F
Q220 2SK2723
Q221～223 SWITCHING DRIVER
Q219, 220 SWITCHING
Q225 2SA1235 F
Q227 2SC3052F POWER SW
Q226 2SA1235F POWER SW
Q201, 202, 225 MUTE SW
MUTE
D-POWER
HP-MUTE
Q111, 112 -VFL REG
Q111 KTA1266
Q112 KTA1266
RY101 DSA-SS 212DM5
D101 RS603M
D102 RS603M
Q106 2SC3052 F DC DET
Q110 2SC3052 HOLD SW
Q108 2SC3052 AC DET
Q109 2SA1235
Q107 2SA1235 F
Q114 2SA1235 F POWER SW
Q102 2SB1370 F
Q101 2SB1370 E
Q105 CSD1489 B VCC SW
Q104 2SC3052 F
Q103 KTC3198 GR
Q101～104, 115 CONST VOL REG
Q101～104 CONST VOL REG
Q381, 382 LEVEL DET
PT101 PT. HR
E AC2 C.B
F AC1 C.B
HE: AC 120V/220V-230V/240V 50/60HZ
F101 3.15A 250V
SW101 AC VOLTAGE
SW1 SL1-2-3
F102 3.15A 250V
LIVE
NEUTRAL
SIGNAL:
PB/FM/MIC
REC/AM

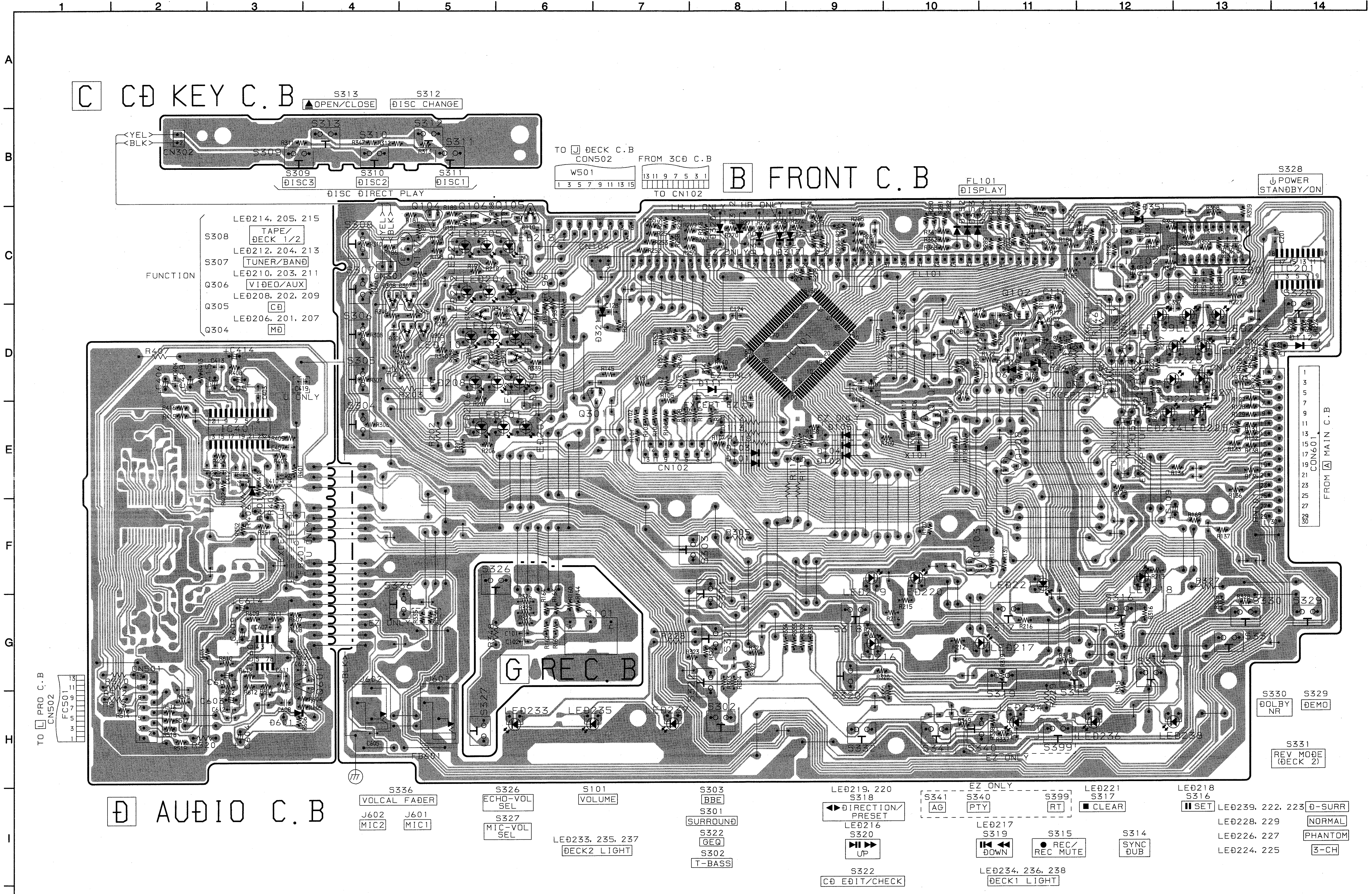
SCHEMATIC DIAGRAM – 4 (FRONT)



B FRONT C·B
C CD KEY C·B
G RE C·B (2/2)
D AUDIO C·B
OPEN CLOSE
DISC CHANGE
DISC 1
DISC 2
DISC 3
S313
S312
S311
S310
S309
R347 22k
R313 10k
R312 5.6k
R311 4.7k
S309-313: EVQ11G04M
CN302
CN301
PN101
TO A MAIN C.B CON601
TU-SIG/MS
(RDS-CLK)
(RDS-DATA)
TM-BASE
CLK
DATA
TUNE/IFC
STEREO
MA-STB
MUTE
PLL-CE
LH1
LH2
HSP
D-POWER
F1
F2
HOLD
VM
-VFL
D-GND
HP-MUTE (NC)
VCC
MIC
IN-L
IN-R
A-GND
OUT-L
OUT-R
A-GND
R121 1k
R122 1k
R123 1k
EZ ONLY
D112 1N4148
R124 1k
R125 1k
R126 1k
R127 1k
R128 1k
R129 1k
R130 100
R131 1k
R132 100
R133 100
R134 100
R138 100
R135 10
R136 1k
R137 100
10.8
IC380 BA3835S
SPECTRUM ANALYZER
BIASC
VREFC
RREF
NC
DIFOUT(NC)
CIN
AIN
VCC
GND
AOUT
TEST
SEL
C355 0.1
C354 0.1
R354 100k
R360 10
C353 0.1
C352 0.1
6.3
C356 0.1
R355 100
R359 27k
R358 27k
R357 27k
R356 27k
R152 0.47
R153 0.47
EXCEPT U
U ONLY
R150 0.47
R146 0.47
R353 22k
C351 390p
C357 0.1
SPEANA
FL101 BJ530GK 7NF-5
DISPLAY
K-CON (NC)
BBE
DSP
F1
F2
-VFL
VD
VM
D352~354 1N4148
D352
D353
D354
R363 4.7k
R362 4.7k
R361 4.7k
S301-341: EVQ11G04M
S326
ECHO-VOL SEL
S327
MIC-VOL SEL
R348 22k
R326 10k
R325 5.6k
R324 4.7k
TAPE S308
TUNER S307
AUX S306
CD S305
MD S304
BBE S303
T-BASS S302
SURROUND S301
R310 3.3k
R309 2.2k
R308 1.8k
R307 1.8k
R306 1.2k
R305 1.2k
R304 1k
R303 820
GEQ S322
DSP S321
FF S320
REW S319
PLAY S318
STOP S317
PAUSE S316
REC S315
R323 3.3k
R322 2.2k
R321 1.8k
R320 1.8k
R319 1.2k
R318 1.2k
R317 1k
R316 820
EDIT S332
R.MODE S331
DOLBY S330
DEMO S329
S341 AG
S340 PTY
S339 RT
S336 VF
R349 22k
R338 10k
R337 5.6k
R336 4.7k
R351 3.3k
R334 2.2k
R333 1.8k
R332 1.8k
R331 1.2k
R330 1.2k
R329 1k
R328 820
R327 1k
R301 10k
R302 1k
DUBB S314
R315 1k
R314 10k
POWER S328
R300 10k
Q301 C3052 F
KEY SCAN SW
K1
K2
K3
D351 1N4148
R364 4.7k
LW
SW
D-SURR
AM-10K
RDS
D318 1N4148
D317 1N4148
D312 1N4148
D320 1N4148
D315 1N4148
D308 MC2836
D307 MC2836
D306 MC2836
D305 MC2836
D304 MC2836
D303 MC2836
D302 MC2836
D301 MC2836
D321 1N4148
EZ ONLY
HE ONLY
LH, U ONLY
EZ ONLY
CST2
REB
CAM2
AUTO1
AUTO2
CAM1
CSTT
REA
MIC
LED201~205 SLR 342VCT31
LED206~215 SLR 56PCT31
LED216~221 SLH 56PCT31
LED233, 234 LED237, 238 SLH 56PCL
LED235, 236 SLH 56VCL
LED222~229 239
R216 680
R215 680
R214 680
R213 680
R212 680
R211 680
STOP
REV
FWD
PAUSE
REW
FF
D-POWER
R205 560
R210 10k
GRN
RED
TAPE
R229 470
R228 470
DECK1 LIGHT
DECK2 LIGHT
LED234
LED236
LED238
LED233
LED235
LED237
LED228
LED229
LED226
LED227
LED224
LED225
LED222
LED223
R220 820 1/8W
R219 820 1/8W
R218 820 1/8W
R217 680 1/8W
NORMAL
PHANTOM
3CH
D-SURR
R601 100
9.9
C601 10/50
R602 2.2k
R603 2.2k
C614 220/10
MIC AMP
Q601 K2158
LIMITER
D601 1N4148
R606 470
C604 22/25
C602 4700p
R604 220k
C603 10/50
R605 1k
R351 100k
R352 100k
R610 100
IC601 (1/2) NJM4558 MD
IC601 (2/2) NJM4558 MD
R611 270k
C607 82p
C608 0.1
C612 0.056
R613 100
R612 100k
R615 27k
R614 2.2k
C611 820p
C609 0.22/50
R609 2.2k
J601
J602
MIC1
MIC2
C605 0.1
R607 4.7k
R608 4.7k
FB601 EMI BL01 RN1
CN501
TO L PRO C.B CN502
D-MUTE
VCC
PRO-CE
DATA
CLK
A-GND
IN-MIC
OUT-MIC
OUT-L
OUT-R
IN-R
IN-L
A-GND
FC501
R510 100
R512 1k
R513 1k
R514 1k
R515 100
R516 100
R517 100
R518 100
R520 100
R519 100
IC401 BH3864F
C403 0.047
C405 1/50
C407 3300p
R409 47k
R412 47k
D401 1N4148
DATA
MA-STB
R411 1k
C409 0.0
S-CLK
SI
R415 1.5k
IN2
VOL
BASS
TRE
DINAMIC BASS
FILTER
VCC
FILTER
GND
IN1
DIGITAL CONTROL
ALC
R407 100
9.1
C413 0.1
R416 1.5k
U ONLY
W401 U2430
C419 0.1
R408 2.2k
C414 47/10
C415 47/10
C404 0.047
C406 1/50
C408 3300p
C416 0.1
R413 100k
C418 10/50
C410 0.022
FB401 EMI BL01
OTHERS: JUMPER


IC101
LC866548V -5E54
MICRO-COMPUTER
IC102
GP1U281X
REMOTE UNIT
S101
EC16B24304
ENCODER
G RE C·B
(1/2)
IC201
BU2092F
SHIFT REGISTER
CN102
I-DISH SENS
O-DISH-RVS
O-DISH-FWD
O-TRAY-OPEN
O-TRAY-CLOSE
I-CDSW
I-SUBQ
O-DRF
O-CD-LED
I-WRQ
O-DATACD
O-CDCE
O-CDCLK
TO 3CD C.B
CN104
W501
CON502
CST2
REB2
CAM2
SOL2
AUTO1
SOL1
HSP
AUTO2
GND
MOTOR
LH2
LH1
CAM1
CST1
REA2
M1
DECK MOTOR
Q1 2SA933S (RS)
SFR1 3.3K
IC1, IC2
DN6851
AUTO STOP
SFR1
SPEED ADJ
Q1
MOTOR H-SPEED SW
J DECK C·B
MOTOR SW
Q107 CSB1058 B
Q105 CSA1362 GR
SOL2 SW
Q106 CSA1362 GR
SOL1 SW
Q104 RT1N 141C
MOTOR SW
D110 MC2836
Q108 RT1N 144C
POWER SW
Q103 A1235 F
INV
Q102 C3052 F
RESET SW
Q101 RN1410
CLK SHIFT SW
Q301 C3052 F
KEY SCAN SW
X101 5.76MHz
CRHF
TUNE/IHF
STEREO
EZ ONLY
RDS-DATA
EXCEPT EZ
EZ ONLY
R260-266: 100k
R279-289: 100k
TAPE
TUNER
AUX
CD
MD
GRN
RED
GEQ/T-BASS/E-VR
FILTER
ALC
OUT1
OUT2
SIGNAL:
PB/MIC

WIRING – 4 (FRONT)



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12
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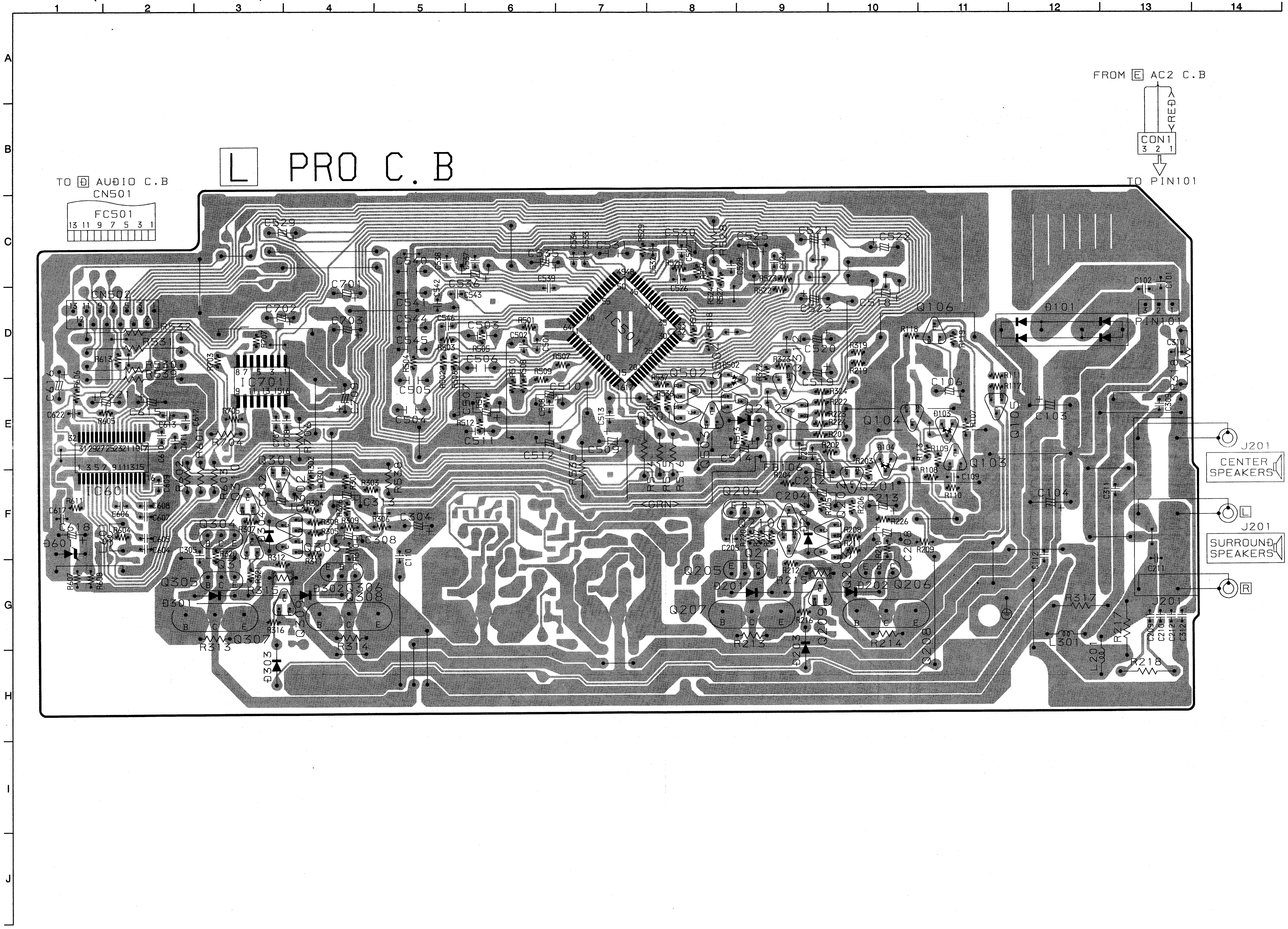
A
B
C
D
E
F
G
H
I
J
C CĐ KEY C. B
S313
▲OPEN/CLOSE
S312
ĐISC CHANGE
<YEL>
<BLK>
CN302
S309
ĐISC3
S310
ĐISC2
S311
ĐISC1
ĐISC ĐIRECT PLAY
TO J ĐECK C.B
CON502
W501
FROM 3CĐ C.B
TO CN102
B FRONT C. B
FL101
ĐISPLAY
S328
⏻POWER
STANĐBY/ON
LEĐ214, 205, 215
S308
TAPE/
ĐECK 1/2
LEĐ212, 204, 213
S307
TUNER/BANĐ
FUNCTION
LEĐ210, 203, 211
Q306
VIĐEO/AUX
LEĐ208, 202, 209
Q305
CĐ
LEĐ206, 201, 207
Q304
MĐ
IC101
CN102
IC401
IC402
CON601
FROM A MAIN C.B
TO L PRO C.B
CN502
FC501
G REC. B
S330
ĐOLBY NR
S329
ĐEMO
S331
REV MOĐE
(ĐECK 2)
Đ AUĐIO C. B
S336
VOLCAL FAĐER
J602
MIC2
J601
MIC1
S326
ECHO-VOL
SEL
S327
MIC-VOL
SEL
S101
VOLUME
LEĐ233, 235, 237
ĐECK2 LIGHT
S303
BBE
S301
SURROUNĐ
S322
GEQ
S302
T-BASS
LEĐ219, 220
S318
◀▶ĐIRECTION/
PRESET
LEĐ216
S320
▶II ▶▶
UP
S322
CĐ EĐIT/CHECK
EZ ONLY
S341
AG
S340
PTY
S399
RT
LEĐ217
S319
I◀◀ ◀◀
ĐOWN
S315
● REC/
REC MUTE
LEĐ234, 236, 238
ĐECK1 LIGHT
LEĐ221
S317
■ CLEAR
S314
SYNC
ĐUB
LEĐ218
S316
II SET
LEĐ239, 222, 223
Đ-SURR
LEĐ228, 229
NORMAL
LEĐ226, 227
PHANTOM
LEĐ224, 225
3-CH

WIRING – 5 (PROLOGIC : U, LH, HE)



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11
12
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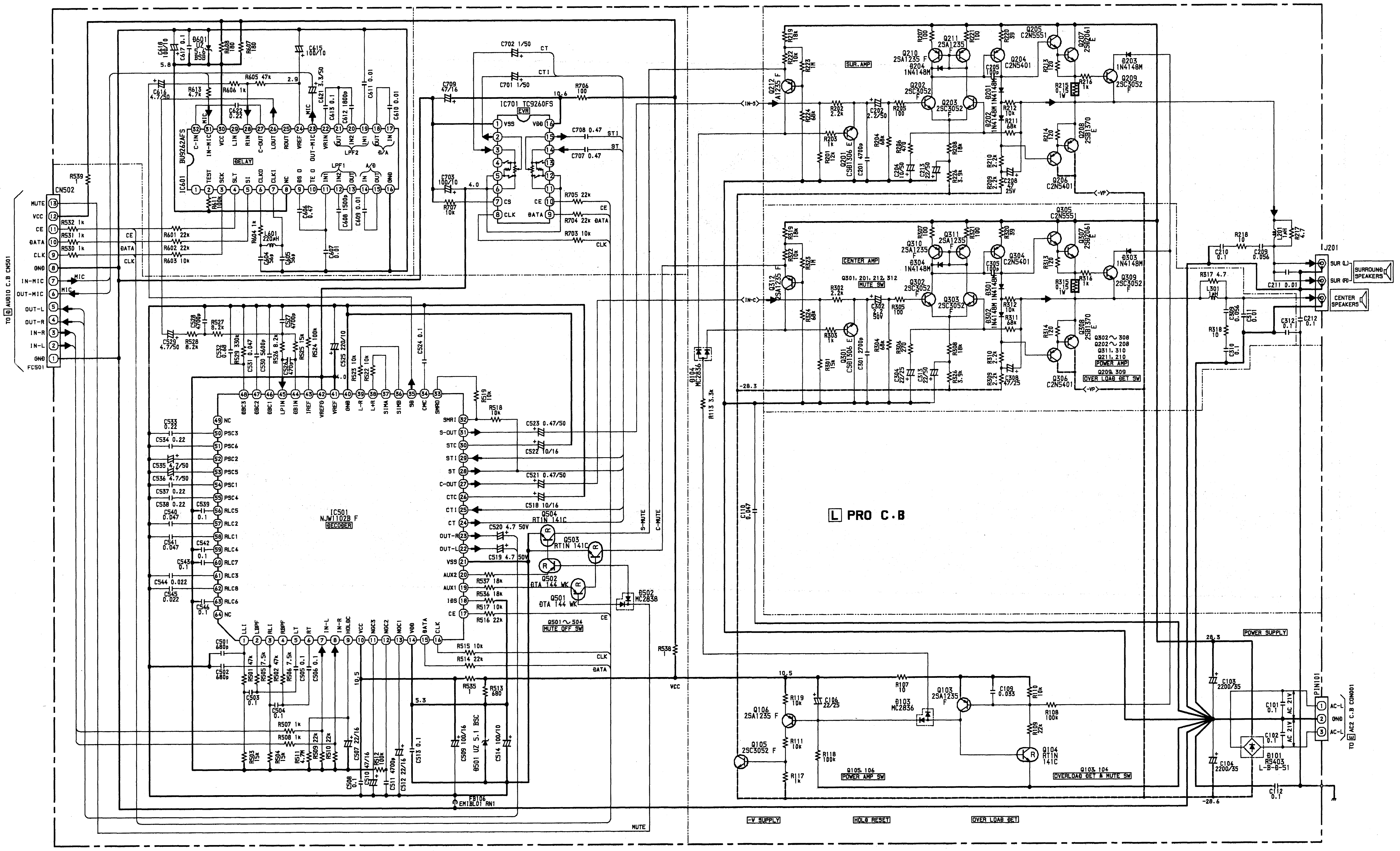
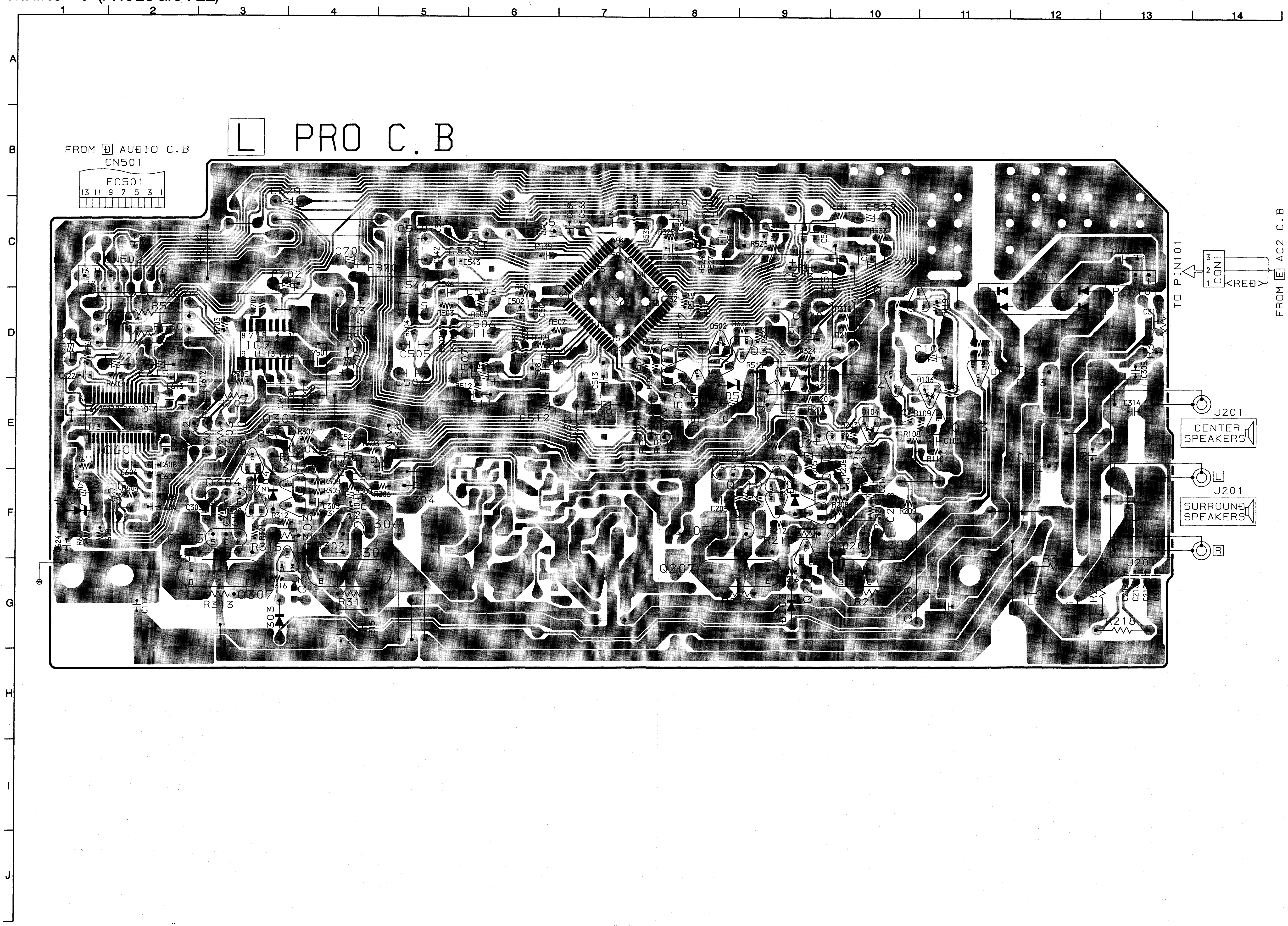
14
A
B
C
D
E
F
G
H
I
J
L PRO C.B
TO D AUDIO C.B
CN501
FC501
13 11 9 7 5 3 1
FROM E AC2 C.B
RED
CON1
3 2 1
TO PIN101
CN502
IC501
IC701
IC601
D101
PIN101
Q106
Q104
Q105
Q103
Q201
Q204
Q205
Q206
Q207
Q208
Q209
Q210
Q301
Q302
Q303
Q304
Q305
Q306
Q307
Q308
Q501
Q502
Q503
D201
D202
D203
D301
D302
D303
D501
D601
C103
C104
C106
C501
C503
C505
C506
C507
C509
C510
C511
C512
C518
C519
C520
C521
C522
C523
C525
C529
C530
C531
C536
C540
C541
C544
C545
C618
C621
C701
C702
C703
R313
R314
R213
R214
R217
R218
R317
R532
R533
R539
R704
L201
L301
FB106
<GRN>
J201
CENTER SPEAKERS
L
SURROUND SPEAKERS
R

SCHEMATIC DIAGRAM – 5 (PROLOGIC : U, LH, HE)


IC601 BU9262AFS
DELAY
LPF1
LPF2
A/D
D/A
IC701 TC9260FS
EVR
IC501 NJW1102B F
DECODER
CN502
FC501
TO AUDIO C.B CN501
MUTE
VCC
CE
DATA
CLK
GND
IN-MIC
OUT-MIC
OUT-L
OUT-R
IN-R
IN-L
MIC
S-MUTE
C-MUTE
Q501 ~ 504
MUTE OFF SW
D501 UZ 5.1 BSC
D502 MC2838
FB106 EMI8L01 RN1
L PRO C.B
SUR.AMP
CENTER AMP
Q301, 201, 212, 312
MUTE SW
Q302 ~ 308
Q202 ~ 208
Q311, 310
Q211, 210
POWER AMP
Q209, 309
OVER LOAD DET SW
J201
SUR (L)
SUR (R)
SURROUND SPEAKERS
CENTER SPEAKERS
POWER SUPPLY
PIN101
AC-L
GND
TO AC2 C.B CN001
D101 RS403 L-B-B-51
Q105, 106
POWER AMP SW
Q103, 104
OVERLOAD DET & MUTE SW
-V SUPPLY
HOLD RESET
OVER LOAD DET
VCC
MUTE

WIRING – 6 (PROLOGIC : EZ)


1
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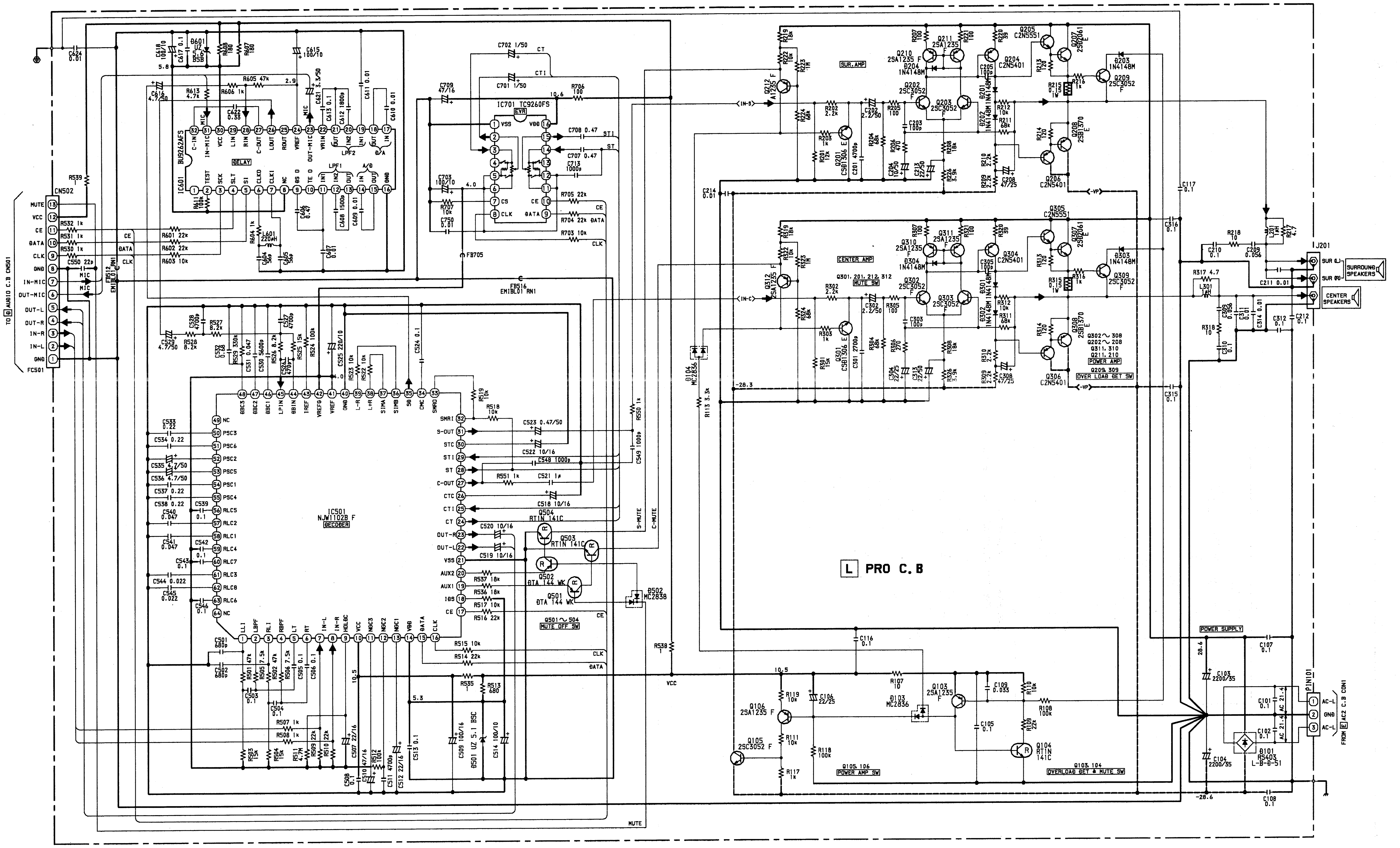
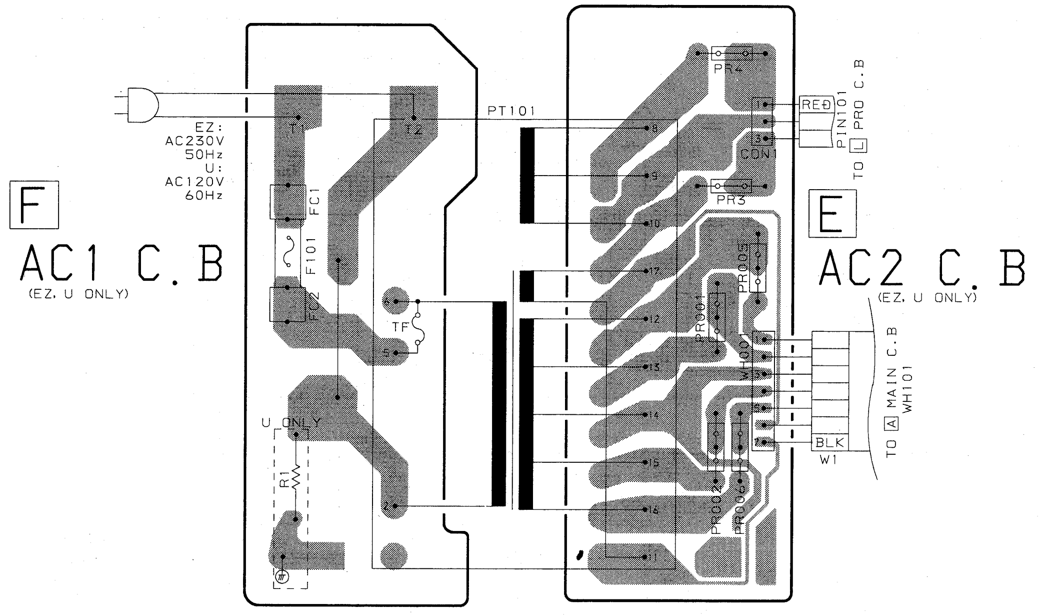
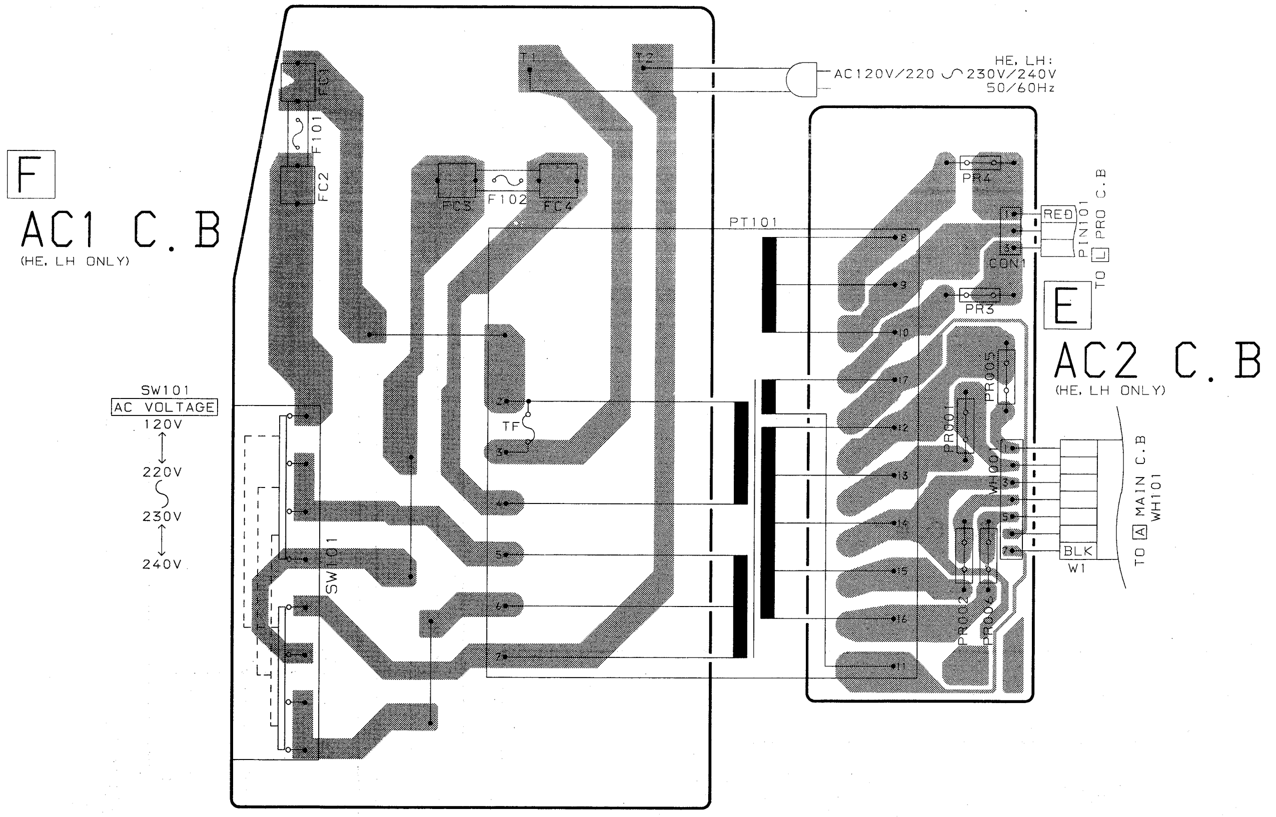
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J
L PRO C.B
FROM D AUDIO C.B
CN501
FC501
13 11 9 7 5 3 1
CN502
IC501
IC701
IC601
TO PIN101
PIN101
FROM E AC2 C.B
CON1
<RED>
J201
CENTER SPEAKERS
L
J201
SURROUND SPEAKERS
R

SCHEMATIC DIAGRAM – 6 (PROLOGIC : EZ)

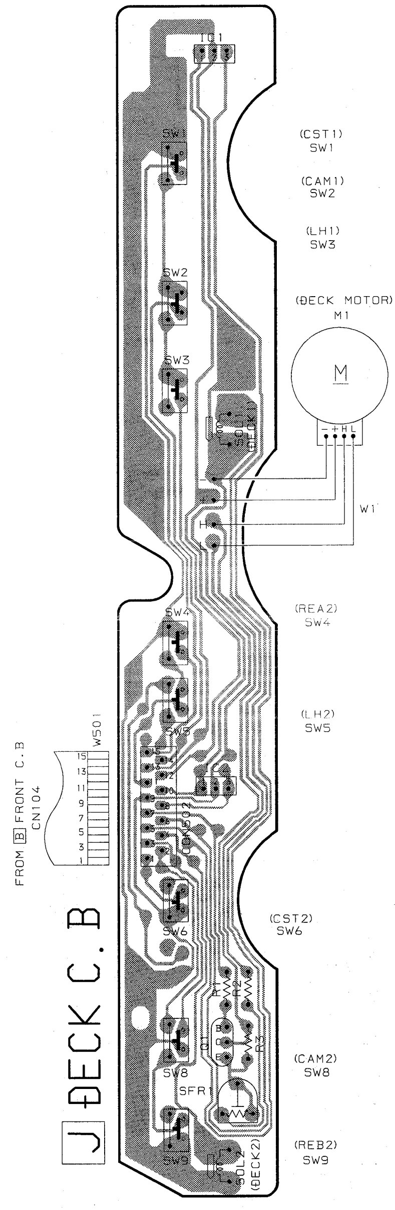

IC601 BU9262AFS
DELAY
IC701 TC9260FS
EVR
IC501 NJW1102B F
DECODER
CN502
TO ⓑ AUDIO C.B CN501
FC501
MUTE
VCC
CE
DATA
CLK
GND
IN-MIC
OUT-MIC
OUT-L
OUT-R
IN-R
IN-L
SUR.AMP
CENTER AMP
MUTE SW
POWER AMP
OVER LOAD DET SW
Q501～504
MUTE OFF SW
POWER SUPPLY
Q105, 106
POWER AMP SW
Q103, 104
OVERLOAD DET & MUTE SW
J201
SURROUND SPEAKERS
CENTER SPEAKERS
SUR (L)
SUR (R)
PIN101
AC-L
GND
AC-L
FROM Ⓔ AC2 C.B CON1
D101 RS403 L-B-B-51
L PRO C.B
VCC
MUTE
S-MUTE
C-MUTE
IN-S
IN-C
-VP
-28.3
-28.6
28.6
10.5

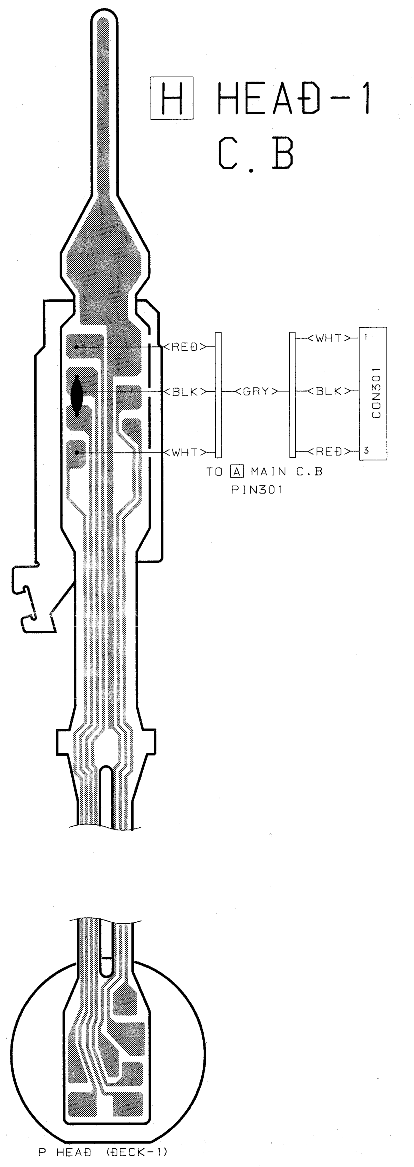
WIRING – 7 (PT)

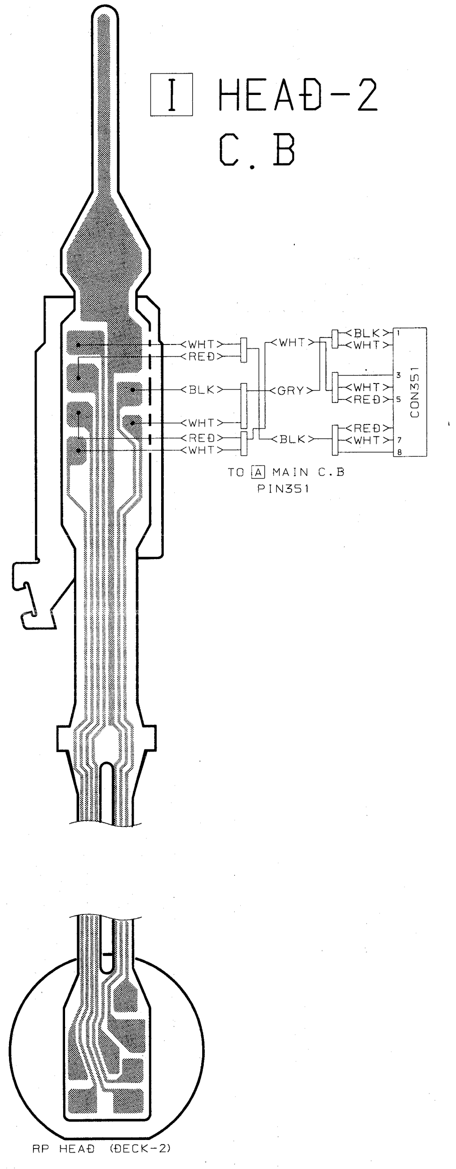

F
AC1 C.B
(EZ, U ONLY)
EZ:
AC230V
50Hz
U:
AC120V
60Hz
T1
T2
FC1
F101
FC2
TF
U ONLY
R1
PT101
PR4
PR3
CON1
RED
PIN101
TO L PRO C.B
E
AC2 C.B
(EZ, U ONLY)
PR001
PR005
PR002
PR006
WH001
BLK
W1
TO A MAIN C.B
WH101


HE, LH:
AC120V/220 ∽ 230V/240V
50/60Hz
T1
T2
FC1
F101
FC2
FC3
F102
FC4
TF
F
AC1 C.B
(HE, LH ONLY)
SW101
AC VOLTAGE
120V
220V
230V
240V
SW101
PT101
PR4
PR3
CON1
RED
PIN101
TO L PRO C.B
E
AC2 C.B
(HE, LH ONLY)
PR001
PR005
PR002
PR006
WH001
BLK
W1
TO A MAIN C.B
WH101

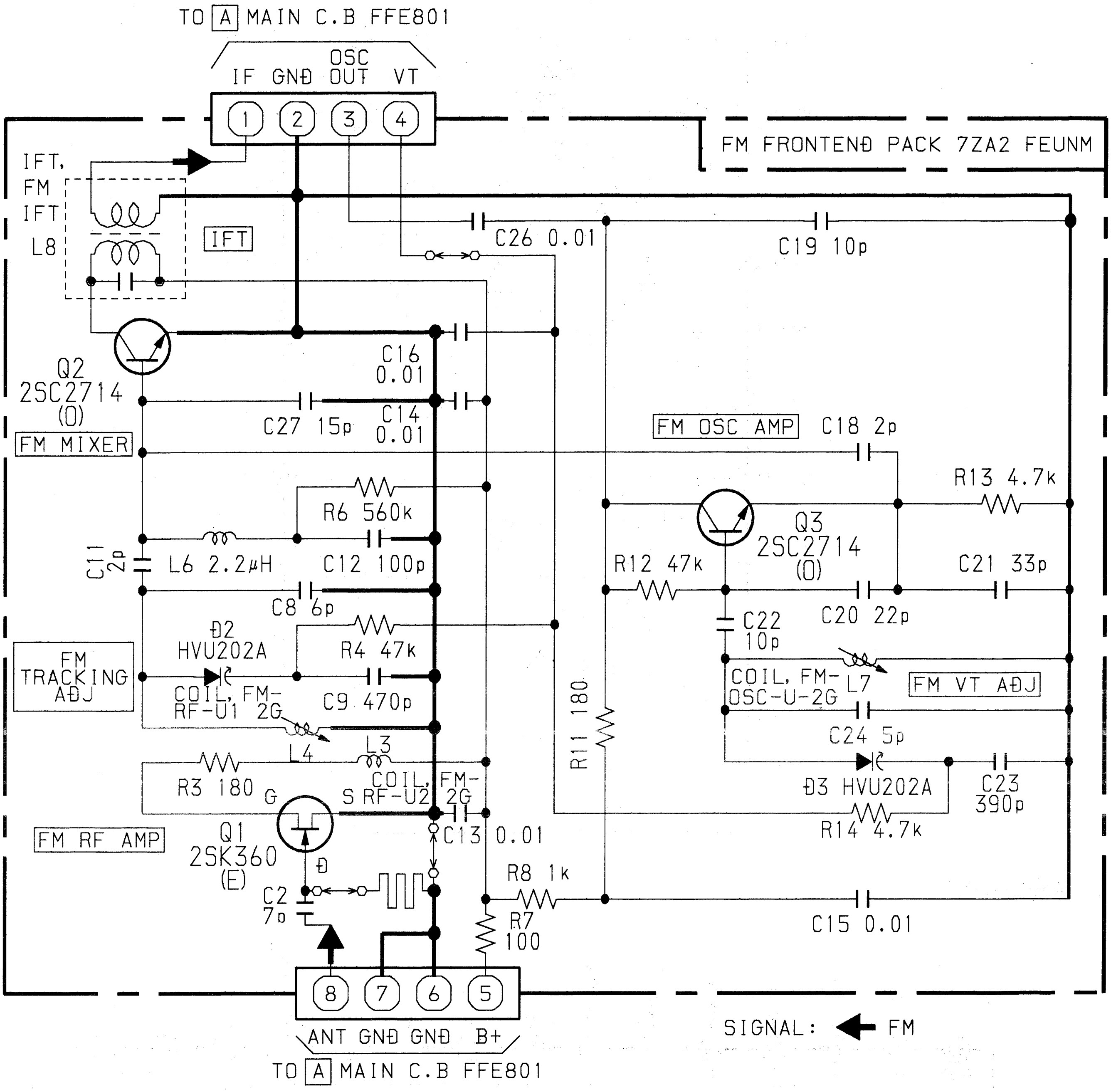
WIRING – 8 (DECK)

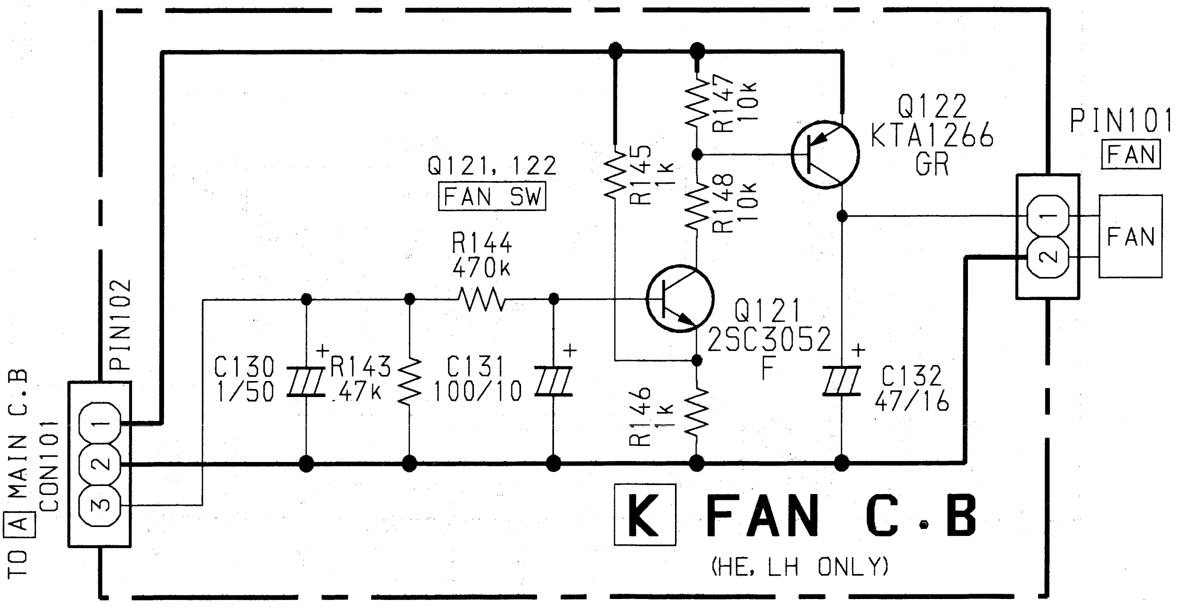

IC1
SW1
(CST1)
SW1
(CAM1)
SW2
(LH1)
SW3
SW2
SW3
(DECK MOTOR)
M1
M
– + H L
SOL1
(DECK1)
W1
SW4
(REA2)
SW4
SW5
(LH2)
SW5
W501
FROM B FRONT C.B
CN104
15
13
11
9
7
5
3
1
CON502
SW6
(CST2)
SW6
R1
R2
R3
Q1
B
C
E
SW8
(CAM2)
SW8
SFR1
SW9
(REB2)
SW9
SOL2
(DECK2)
J DECK C.B


H HEAD-1
C.B
<RED>
<BLK>
<WHT>
<GRY>
<WHT>
<BLK>
<RED>
1
3
CON301
TO A MAIN C.B
PIN301
P HEAD (DECK-1)


I HEAD-2
C.B
<WHT>
<RED>
<BLK>
<WHT>
<RED>
<WHT>
<WHT>
<GRY>
<BLK>
<BLK>
<WHT>
<WHT>
<RED>
<RED>
<WHT>
CON351
TO A MAIN C.B
PIN351
RP HEAD (DECK-2)

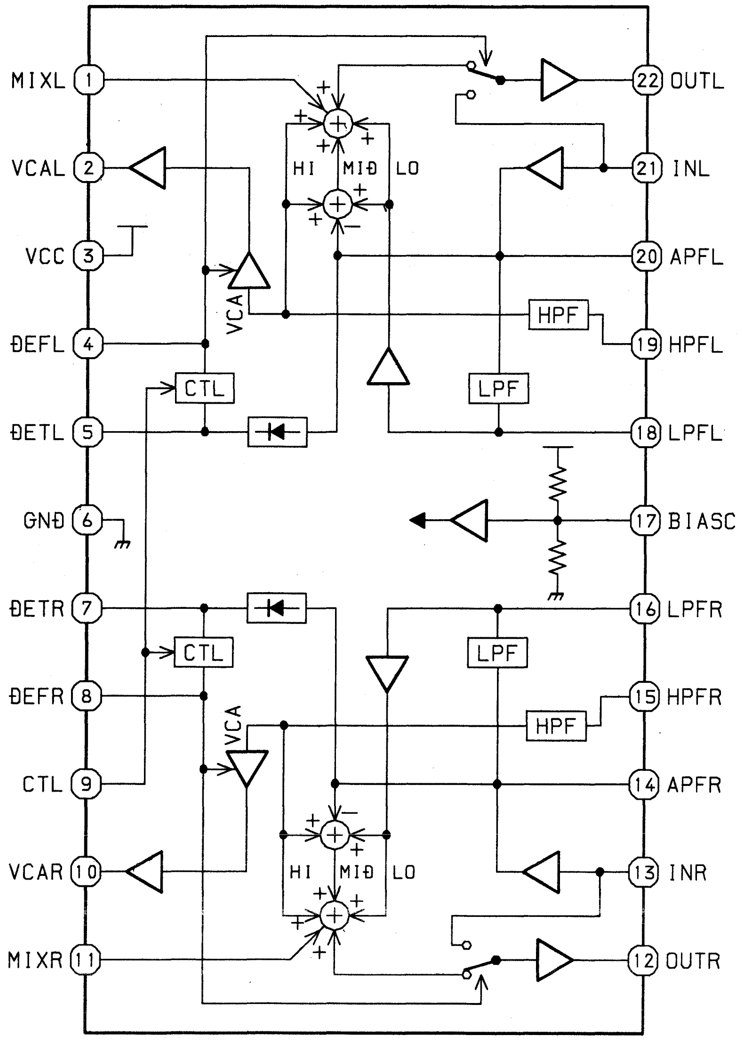
SCHEMATIC DIAGRAM – 7 (TUNER FRONT END / FAN)


TO A MAIN C.B FFE801
IF GND OSC OUT VT
1 2 3 4
FM FRONTEND PACK 7ZA2 FEUNM
IFT, FM IFT L8
IFT
C26 0.01
C19 10p
Q2 2SC2714 (O)
FM MIXER
C16 0.01
C27 15p
C14 0.01
FM OSC AMP
C18 2p
R13 4.7k
R6 560k
Q3 2SC2714 (O)
C11 2p
L6 2.2μH
C12 100p
R12 47k
C21 33p
C8 6p
C22 10p
C20 22p
FM TRACKING ADJ
D2 HVU202A
R4 47k
C9 470p
COIL, FM-RF-U1 2G
COIL, FM-OSC-U-2G L7
FM VT ADJ
R11 180
C24 5p
L4
L3
R3 180
COIL, FM-S RF-U2 2G
D3 HVU202A
C23 390p
G
Q1 2SK360 (E)
C13 0.01
R14 4.7k
FM RF AMP
D
R8 1k
C2 7p
R7 100
C15 0.01
8 7 6 5
ANT GND GND B+
TO A MAIN C.B FFE801
SIGNAL: FM


R147 10k
Q122 KTA1266 GR
PIN101
FAN
Q121, 122
FAN SW
R145 1k
R148 10k
1
2
FAN
R144 470k
PIN102
Q121 2SC3052 F
TO A MAIN C.B CON101
C130 1/50
R143 47k
C131 100/10
R146 1k
C132 47/16
1
2
3
K FAN C.B
(HE, LH ONLY)

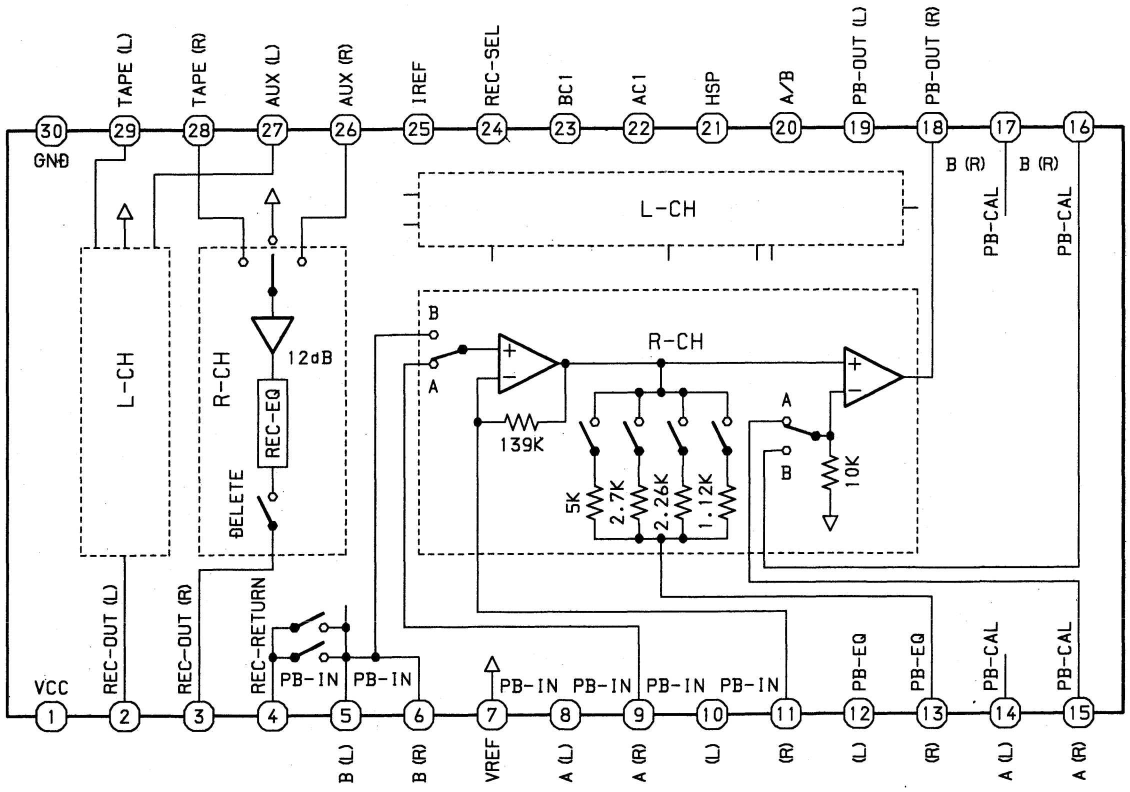
IC BLOCK DIAGRAM

IC, BA3880S



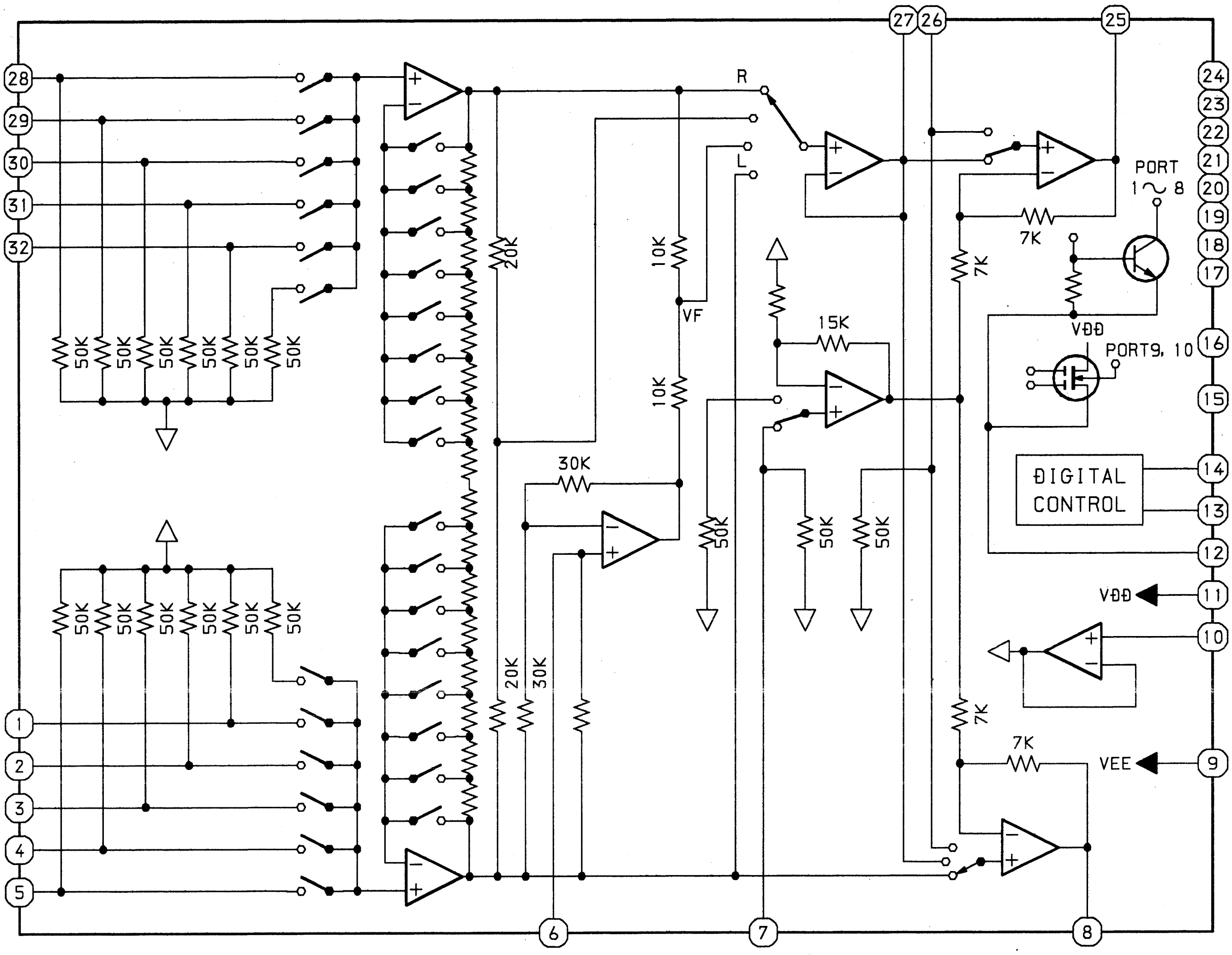
MIXL 1
VCAL 2
VCC 3
DEFL 4
DETL 5
GND 6
DETR 7
DEFR 8
CTL 9
VCAR 10
MIXR 11
22 OUTL
21 INL
20 APFL
19 HPFL
18 LPFL
17 BIASC
16 LPFR
15 HPFR
14 APFR
13 INR
12 OUTR
HI
MID
LO
VCA
HPF
LPF
CTL

IC, HA12211NT



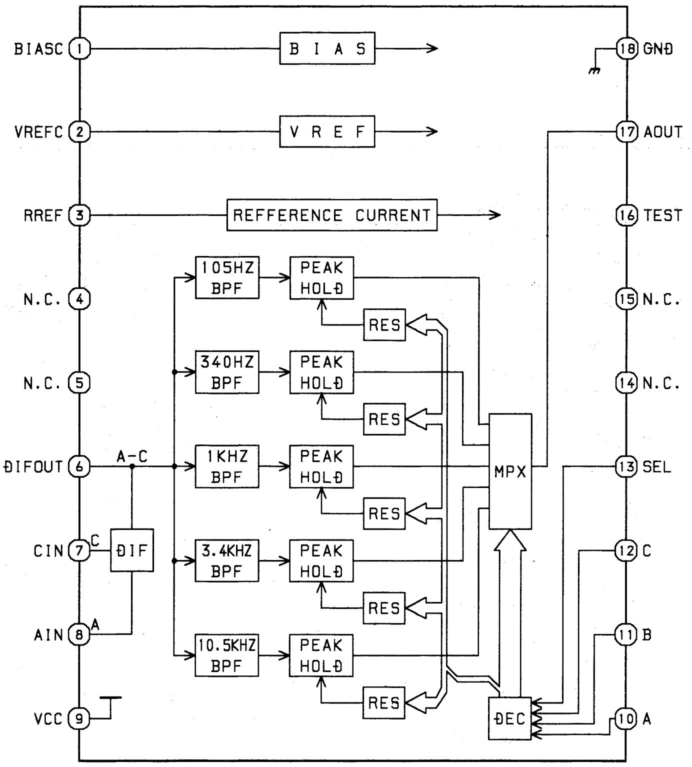
TAPE (L) 29
TAPE (R) 28
AUX (L) 27
AUX (R) 26
IREF 25
REC-SEL 24
BC1 23
AC1 22
HSP 21
A/B 20
PB-OUT (L) 19
PB-OUT (R) 18
17
16
30 GND
B (R)
B (R)
PB-CAL
PB-CAL
L-CH
R-CH
L-CH
R-CH
12dB
REC-EQ
DELETE
B
A
139K
5K
2.7K
2.26K
1.12K
A
B
10K
VCC 1
REC-OUT (L) 2
REC-OUT (R) 3
REC-RETURN 4
PB-IN 5 B (L)
PB-IN 6 B (R)
7 VREF
PB-IN 8 A (L)
PB-IN 9 A (R)
PB-IN 10 (L)
PB-IN 11 (R)
PB-EQ 12 (L)
PB-EQ 13 (R)
PB-CAL 14 A (L)
PB-CAL 15 A (R)

IC, BH3810FS

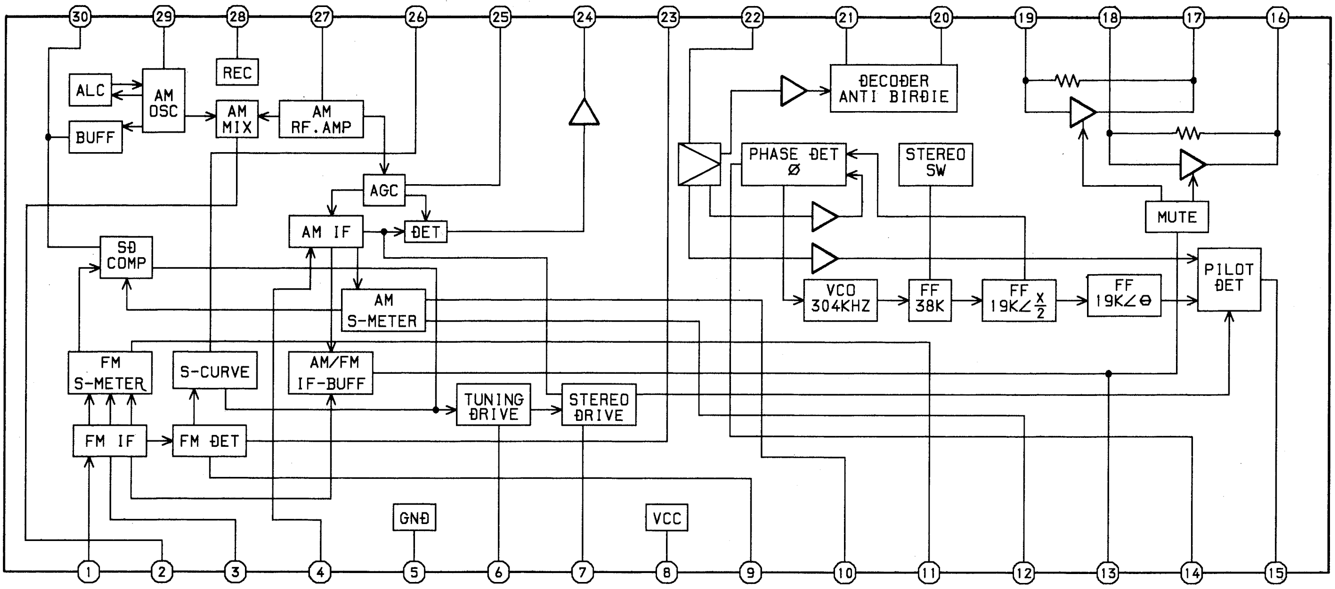


R
L
VF
10K
10K
20K
20K
30K
30K
15K
50K
7K
PORT
1 ~ 8
VDD
PORT9, 10
DIGITAL
CONTROL
VEE

IC, LA3835S


BIASC 1
B I A S
18 GND
VREFC 2
V R E F
17 AOUT
RREF 3
REFFERENCE CURRENT
16 TEST
N.C. 4
15 N.C.
N.C. 5
14 N.C.
DIFOUT 6
A-C
13 SEL
CIN 7
C
DIF
12 C
AIN 8
A
11 B
VCC 9
10 A
105HZ BPF
340HZ BPF
1KHZ BPF
3.4KHZ BPF
10.5KHZ BPF
PEAK HOLD
PEAK HOLD
PEAK HOLD
PEAK HOLD
PEAK HOLD
RES
RES
RES
RES
RES
MPX
DEC

IC, LA1837


30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
ALC
AM OSC
BUFF
REC
AM MIX
AM RF.AMP
AGC
AM IF
DET
SD COMP
AM S-METER
FM S-METER
S-CURVE
AM/FM IF-BUFF
TUNING DRIVE
STEREO DRIVE
FM IF
FM DET
GND
VCC
DECODER ANTI BIRDIE
PHASE DET Ø
STEREO SW
VCO 304KHZ
FF 38K
FF 19K∠$\frac{X}{2}$
FF 19K∠Θ
PILOT DET
MUTE
1
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4
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7
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9
10
11
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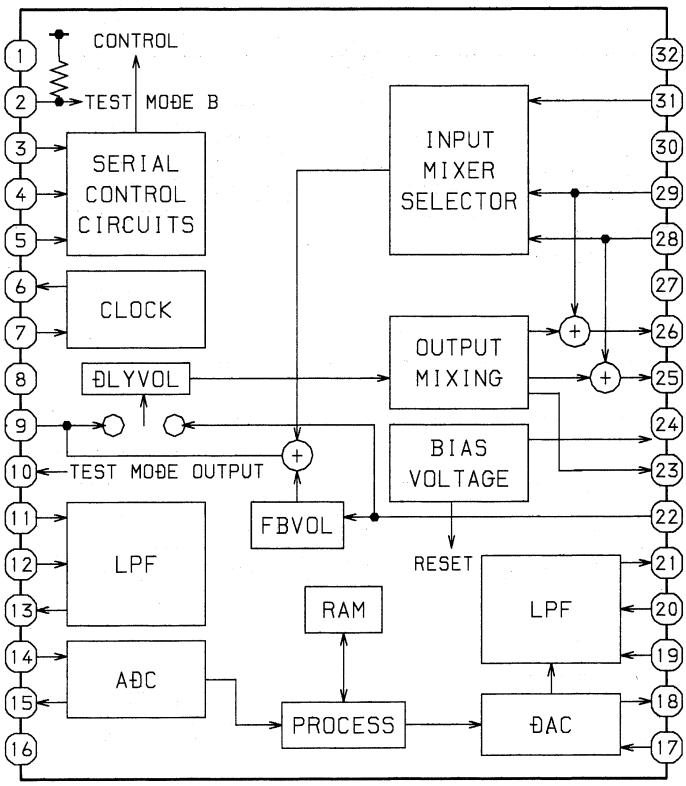
13
14
15

IC, BU9262 AFS


CONTROL
TEST MODE B
SERIAL CONTROL CIRCUITS
CLOCK
DLYVOL
TEST MODE OUTPUT
FBVOL
LPF
ADC
RAM
PROCESS
INPUT MIXER SELECTOR
OUTPUT MIXING
BIAS VOLTAGE
RESET
LPF
DAC
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
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21
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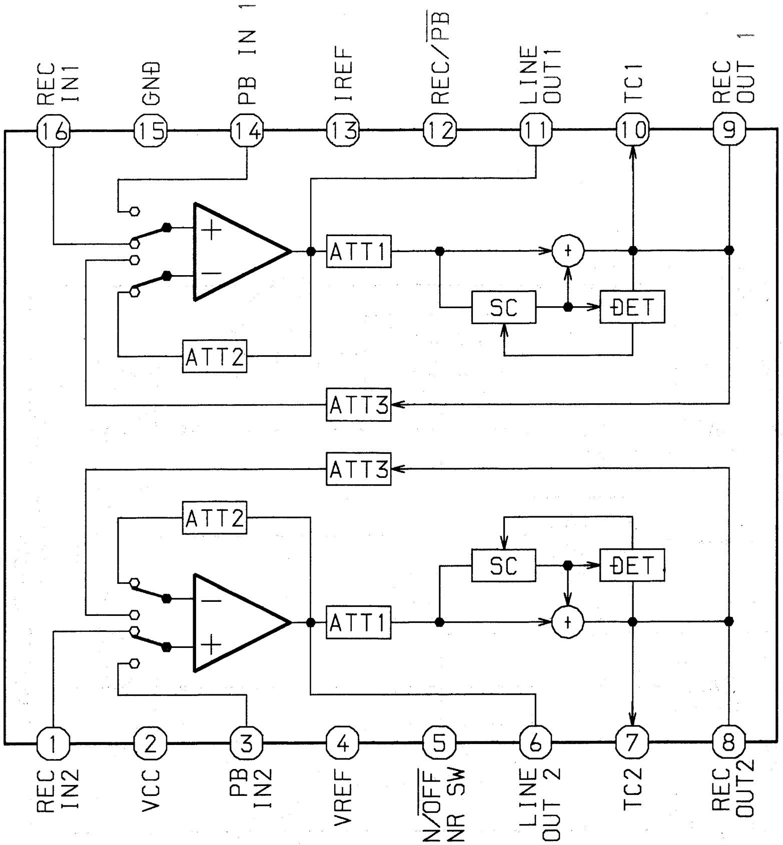
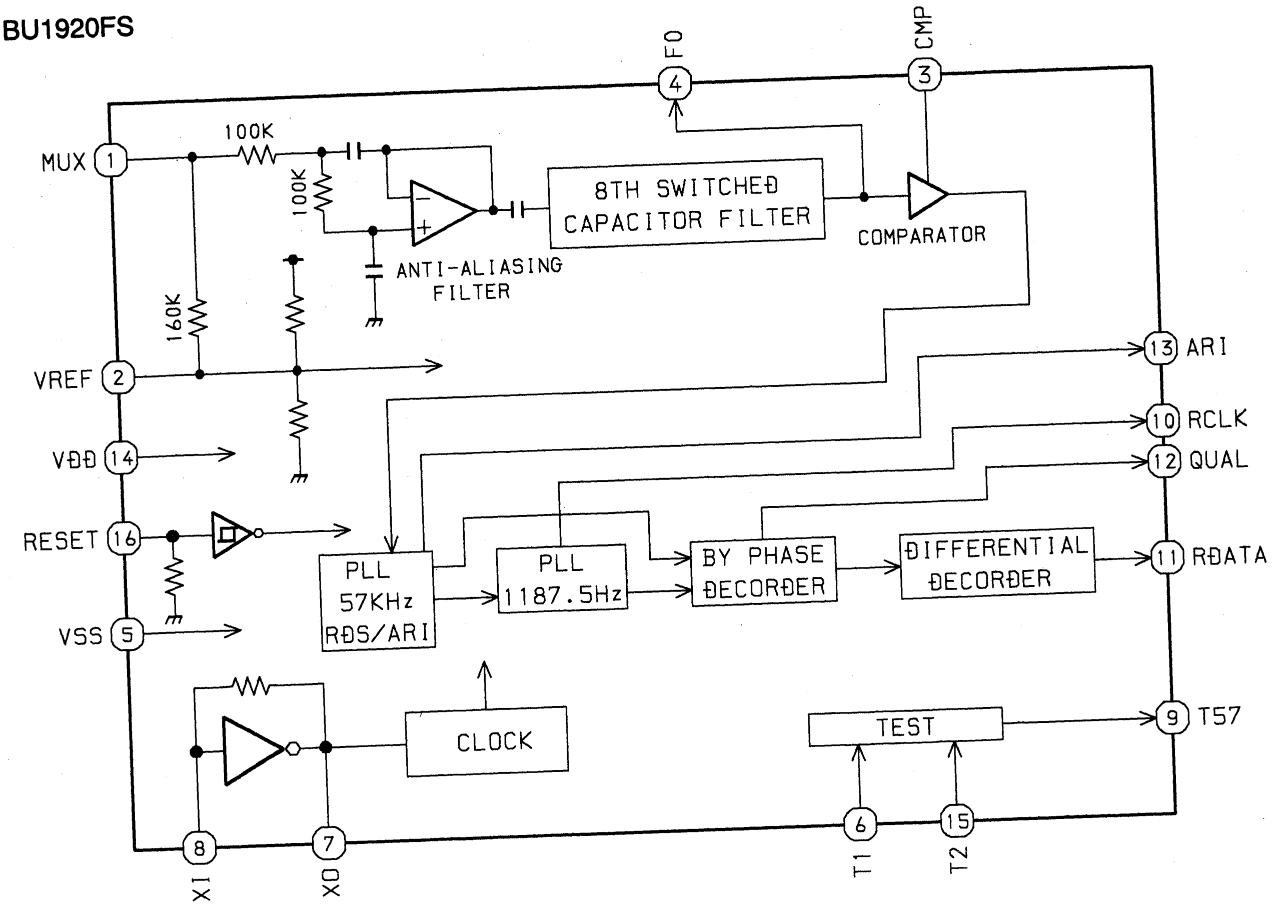
32

IC, CXA1553P

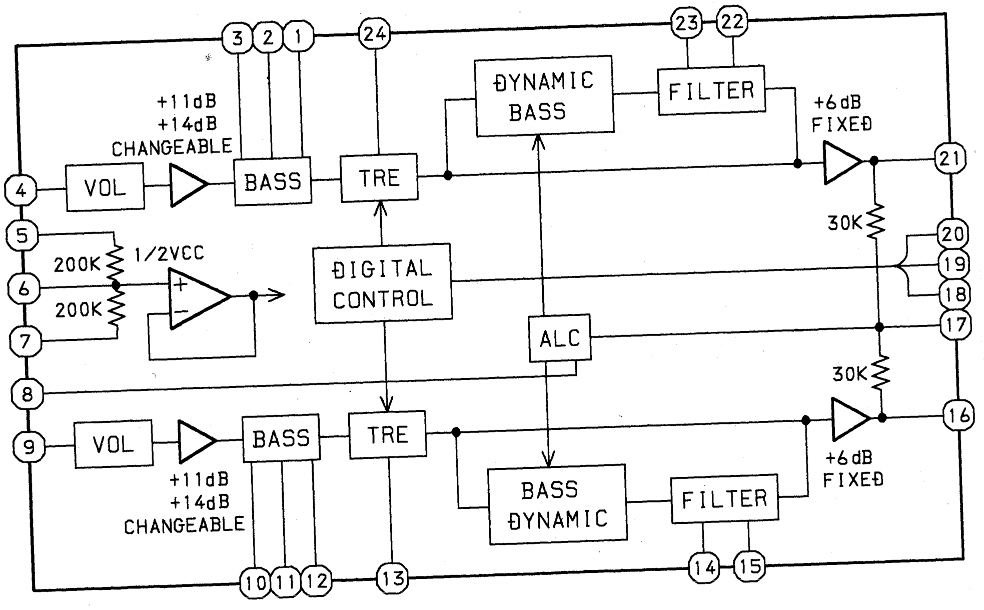

REC IN1
GND
PB IN 1
IREF
REC/$\overline{PB}$
LINE OUT1
TC1
REC OUT 1
16
15
14
13
12
11
10
9
ATT1
SC
DET
ATT2
ATT3
ATT3
ATT2
SC
DET
ATT1
1
2
3
4
5
6
7
8
REC IN2
VCC
PB IN2
VREF
ON/$\overline{OFF}$ NR SW
LINE OUT 2
TC2
REC OUT2

ATT:Attenuator
SC:Side Chain
DET:Detector

IC, BU1920FS


F0
CMP
MUX
100K
100K
160K
VREF
VDD
RESET
VSS
8TH SWITCHED CAPACITOR FILTER
COMPARATOR
ANTI-ALIASING FILTER
ARI
RCLK
QUAL
RDATA
T57
PLL 57KHz RDS/ARI
PLL 1187.5Hz
BY PHASE DECORDER
DIFFERENTIAL DECORDER
CLOCK
TEST
X1
X0
T1
T2
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

IC, BH3864F


+11dB
+14dB
CHANGEABLE
VOL
BASS
TRE
DYNAMIC BASS
FILTER
+6dB FIXED
30K
200K
200K
1/2VCC
DIGITAL CONTROL
ALC
30K
VOL
BASS
TRE
BASS DYNAMIC
FILTER
+6dB FIXED
+11dB
+14dB
CHANGEABLE
1
2
3
4
5
6
7
8
9
10
11
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13
14
15
16
17
18
19
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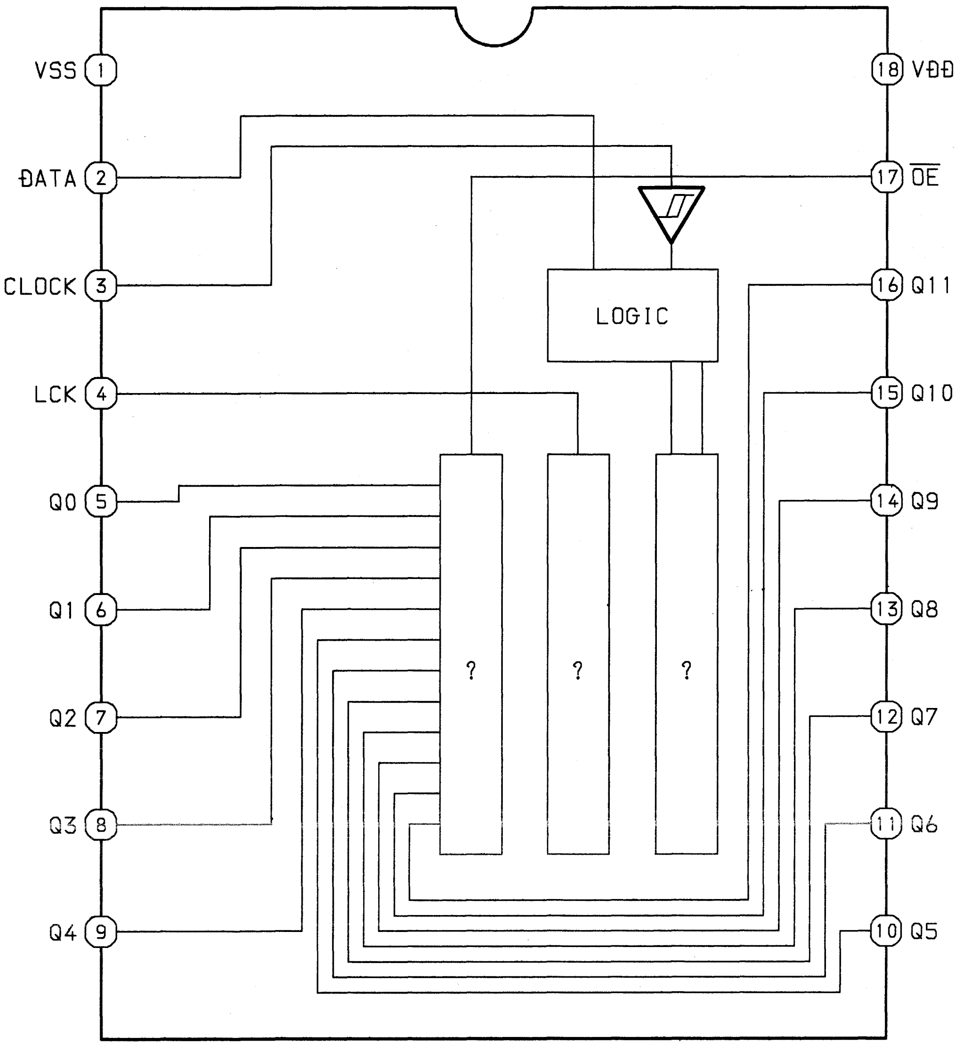
23
24

IC, BU2092F


VSS 1
DATA 2
CLOCK 3
LCK 4
Q0 5
Q1 6
Q2 7
Q3 8
Q4 9
VDD 18
OE 17
Q11 16
Q10 15
Q9 14
Q8 13
Q7 12
Q6 11
Q5 10
LOGIC
?
?
?

IC DESCRIPTION

IC, LC866548V-5E54

Pin No.	Pin Name	I/O	Description
1	RT-A	I	Rotary encoder A input.
2	RT-B	I	Rotary encoder B input.
3	LED-MD	O	"MD" LED ON/OFF output.
4	LED-CD	O	"CD " LED ON/OFF output.
5	LED-AUX	O	"AUX" LED ON/OFF output.
6	LED-TUNER	O	"TUNER" LED ON/OFF output.
7	LED-TAPE	O	"TAPE" LED ON/OFF output.
8	HSP	O	Tape deck motor high speed ON/OFF output.
9	O-POWER	O	System power supply ON/OFF output.
10	O-MUTE	O	System mute ON/OFF output.
11	O-CLK-SHIFT	O	U-COM clock shift output.
12	RESET	I	Reset input.
13	I-HP-MUTE	–	Not connected.
14	I-DISH	I	CD turntable photo sensor A/D converter input.
15	VSS 1	–	GND.
16	CF 1	–	5.76MHz oscillator circuit.
17	CF 2	–	
18	VDD 1	–	Power supply input.
19	HOLD	I	Power failure detected input "1" to stop clock and main memory.
20	KEY-1	I	KEY input.(A/D)
21	KEY-2	I	
22	KEY-3	I	
23	I-CD SW	I	CD mechanical switch A/D converter input.
24	I-MIC	I	Microphone input for AUTO VF display.
25	I-TU-SIG/MS	I	Tuner signal and deck music sensor signal input.
26	I-SPEANA	I	A/D input for spectrum analyzer display.
27	I-WRQ/RDS-CLK	I	CD WRQ input . TUNER RDS CLOCK input.
28	I-TM-BASE	I	REFERENCE CLOCK input for timer watch.
29	I-RMC	I	System remote control signal input.
30~37	G9~G2	O	FL GRID output G2~G9.
38~43	P32~P27	O	FL SEGMENT output P27~P32.
44	G1	O	FL grid output G1.
45	P26	–	FL SEGMENT output P26.
46	VDD3	–	Power supply input.
47	SPEANA-A/P25	O	Spectrum analyzer band switching output /FL segment P25 output.
48	SPEANA-B/P24	O	Spectrum analyzer band switching output /FL segment P24 output.
49	SPEANA-C/P23	O	Spectrum analyzer band switching output /FL segment P23 output.
50	P22/H-DUBB INH	I /O	FL segment P22 output / high dubbing inhibit input to diode.
51	VP	–	Power supply input for FL display.
52	P21/AM-ST	I /O	FL segment P21 output / AM stereo input to diode.
53	P20/LW	I/O	FL segment P20 output / LW mode data input to diode.
54	P19/SW	I/O	FL segment P19 output / SW mode data input to diode.

Pin No.	Pin Name	I/O	Description
55	P18/FM 1	I/O	FL segment P18 output / FM1 (OIRT) data input to diode.
56	P17/RDS	I/O	FL segment P17 output / RDS data input to diode.
57	P16/BBE	I/O	FL segment P16 output / BBE data input to diode.
58	P15/DSP	I/O	FL segment P15 output / DSP data input to diode.
59	P14/DOLBY-SURR	I/O	FL segment P14 output / DOLBY-SURR data input to diode.
60	P13/K-CON	I/O	FL segment P13 output / K-CON data input to diode.
61	P12/DOLBY	I/O	FL segment P12 output / DOLBY data input to diode.
62	P11/WAY	I/O	FL segment P11 output / DECK/WAY MECHA data input to diode.
63	P10/AM-9K/10K	I/O	FL segment P10 output / INITIAL AM 10 kHz step data input to diode.
64	P9/CST 2	I/O	FL segment P9 output / DECK2 cassette detect switch data input.
65	P8/REB	I/O	FL segment P8 output / DECK2 side-B record OK switch data input.
66	P7/CAM 2	I/O	FL segment P7 output / DECK2 CAM switch data input.
67	P6/AUTO 1	I/O	FL segment P6 output / DECK1 AUTO stop signal input.
68	P5/AUTO 2	I/O	FL segment P5 output / DECK2 AUTO stop signal input.
69	P4/CAM 1	I/O	FL segment P4 output / DECK1 CAM switch data input.
70	P3/CST 1	I/O	FL segment P3 output / DECK1 cassette detect switch data input.
71	P2/REA	I/O	FL segment P2 output / DECK2 side A record OK switch data input.
72	VDD 4	–	Power supply input.
73	P1/2092	I/O	FL segment P1 output / SHIFT resistor IC 2092 data input to diode.
74	K-SCAN	O	Switch SCAN timing output.
75	L CK	O	Latch clock output for front shift resistor.
76	PRO-CE	O	PRO LOGIC IC chip enable output.
77	PLL-CE	O	PLL IC chip enable output.
78	MA-STB	O	Latch strobe output for MAIN PWB.
79	DATA	O	DATA output for MAIN, FORNT, PROLOGIC PWB.
80	CLK	O	CLOCK output for MAIN,FORNT, PROLOGIC PWB.
81	DISH-RVS	O	CD turntable reverse rotation output.
82	DISH-FWD	O	CD turntable forward rotation output.
83	TRAY-OPEN	O	CD TRAY OPEN data output.
84	TRAY-CLOSE	O	CD TRAY CLOSE data output.
85	$\overline{\text{LED}}$ ▶▶	O	▶▶ LED $\overline{\text{ON}}$/OFF output.
86	$\overline{\text{LED}}$ ◀◀	O	◀◀ LED $\overline{\text{ON}}$/OFF output.
87	$\overline{\text{LED}}$ ▶	O	▶ LED $\overline{\text{ON}}$/OFF output.
88	$\overline{\text{LED}}$ ◀	O	◀ LED $\overline{\text{ON}}$/OFF output.
89	VSS 2	–	GND.
90	VDD 2	–	Power supply input.
91	$\overline{\text{LED}}$ ■	O	■ LED $\overline{\text{ON}}$/OFF output.
92	$\overline{\text{LED}}$ ❚❚	O	❚❚ LED $\overline{\text{ON}}$/OFF output.
93	$\overline{\text{SOL 1}}$	O	DECK 1 Solenoid output.
94	$\overline{\text{SOL 2}}$	O	DECK 2 Solenoid output.
95	O-MOTOR	O	DECK MOTOR ON/$\overline{\text{OFF}}$ output.
96	I-IFC/I-SUB Q	I	Tune IF count serial data input /CD SUB Q data input.

Pin No.	Pin Name	I/O	Description
97	I-STEREO/O-SQCLK	I/O	Tuner stereo detected input/CD SQ CLOCK output.
98	I-RDS-DATA/O-DATA	I/O	RDS data input/CD data output.
99	O-CD CE	O	CD CE output.
100	O-CD CLK	O	CD CLOCK output.

IC, LC72131

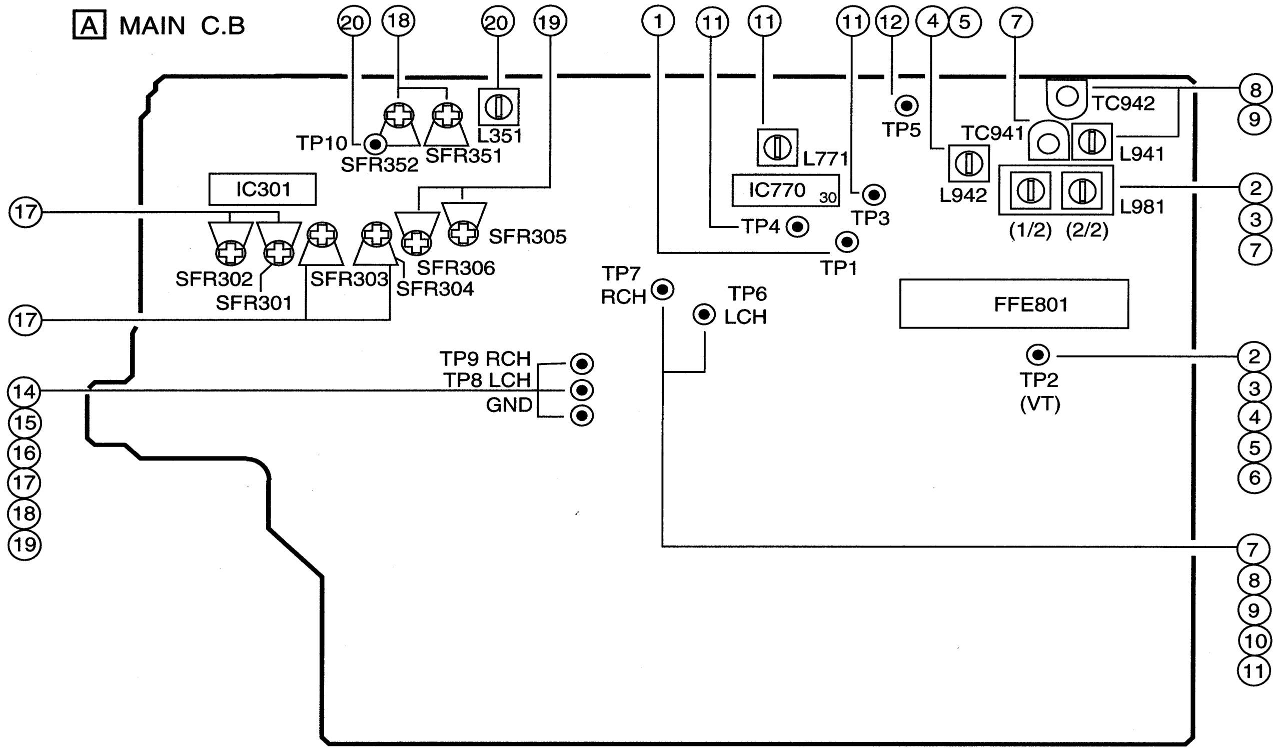
<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>XIN</td><td rowspan="2">I/O</td><td rowspan="2">A crystal oscillator (7.2MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>XOUT</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>3</td><td>CE</td><td>I</td><td>To enable the IC. Active "H".</td></tr>
<tr><td>4</td><td>DI</td><td>I</td><td>Digital data input from CPU (LC866548V-5E15) when relevant key is operated. Active "H".</td></tr>
<tr><td>5</td><td>CLK</td><td>I</td><td>To clock in the data DI.</td></tr>
<tr><td>6</td><td>DO</td><td>O</td><td>Digital data output to CPU (LC866548V-5E15).</td></tr>
<tr><td>7</td><td>TM-BASE</td><td>O</td><td>Outputs a reference clock signal (8Hz) for the clock.</td></tr>
<tr><td>8</td><td>$\overline{\text{MONO}}$ / BEAT</td><td>O</td><td>Outputs "H" when MONO / BEAT is switched.</td></tr>
<tr><td>9</td><td>$\overline{\text{FM}}$ / AM</td><td>O</td><td>Output "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr>
<tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>L</td></tr>
</table></td></tr>
<tr><td>10</td><td>$\overline{\text{MW}}$</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr>
<tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td><td>L</td></tr>
</table></td></tr>
<tr><td>11</td><td>IF-MUTE</td><td>O</td><td>To control internal counter.</td></tr>
<tr><td>12</td><td>IFIN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>TUNE</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>15</td><td>A MIN</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>F MIN</td><td>I</td><td>Receives the FM local oscillator frequency signal.</td></tr>
<tr><td>17</td><td>VDD</td><td>–</td><td>Supply power to IC (+5V).</td></tr>
<tr><td>18</td><td>PD</td><td>O</td><td>PLL charge pump output.</td></tr>
<tr><td>19</td><td>AIN</td><td>I</td><td rowspan="2">The MOS transistor for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>AOUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

IC, NJW1102B

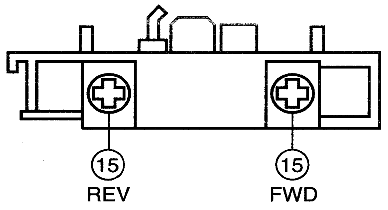
Pin No.	Pin Name	I/O	Description
1	LLI	I	L channel BPF in.
2	LBPF	O	L channel BPF feed back out.
3	RLI	I	R channel BPF in.
4	RBPF	O	R channel BPF feed back out.
5	LT	O	L channel selector #1 out.
6	RT	O	R channel selector #1 out·
7	LIN	I	L channel signal input.
8	RIN	I	R channelsignal input.
9	HOLDC	I	Auto input balance control.
10	VCC	–	Power supply.
11~13	NGC 3~1	I	Noise sequencer control.
14	VDD	–	Power supply.
15	DATA	I	Serial data input.
16	SCK	I	Serial clock input.
17	REQ	I	Serial request (strobe) input.
18	IDS	I	ID select sw.
19	AUX1	O	AUX1 output (serial data change parallel output).
20	AUX2	O	AUX2 output (serial data change parallel output).
21	VSS	–	GND.
22	LOUT	O	L channel signal output.
23	ROUT	O	R channel signal output.
24	CT	O	Center channel output (before trimmer).
25	CTI	I	Center channel trimmer input.
26	CTC	O	Center channel trimmer coupling capacitor out.
27	COUT	O	Center channel trimmer output.
28	ST	O	Surround channel output (before trimmer).
29	STI	I	Surround channel trimmer input.
30	STC	O	Surround channel trimmer coupling capacitor out.
31	SOUT	O	Surround channel trimmer output.
32	SMRI	I	Surround channel amp (front L,R mix) input.
33	SMRO	O	Surround channel amp (front L,R mix) output.
34	CMC	O	Center mode control.
35	SD	O	Selector #2 output (to surround channel delay).
36	SIMB	I	Selector #2 input B (L-R).
37	SIMA	I	Selector #2 input A (L+R).
38	L+R	O	L+R channel output.
39	L-R	O	L-R channel output.
40	GND	–	Ground.
41	VREF	I	VREF in.
42	VREFG	O	Vref out.
43	IREF	I	Iref in.

44	DBIN	I	To modify B NR decoder input.
45	LPIN	I	From surround channel delay input.
46~48	DBC 1~3	I	Dolby B NR control 1~3.
49	NC	–	Not used.
50~55	PSC 1~6	I	Dual time constant and threshold switches control.
56~63	RLC 1~8	I	Full wave rectifier and log difference amp control.
64	NC	–	Not used.

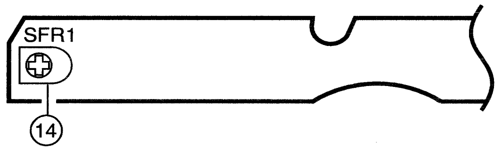
ADJUSTMENT - 1 <TUNER / DECK>



DECK–1 P, DECK–2 R / P / E HEAD



J DECK C.B



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP1 (CLK IC770 pin30)
   Method : Set to MW 1710kHz (HE,LH,U), 1602kHz (EZ), and check that the test point is 2160kHz ± 45Hz (HE,LH,U), 2052 ±0.045kHz (EZ).

2. MW VT Adjustment
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L981 (1/2)
   Method : Set to MW 1710kHz (HE), 531kHz (EZ) and adjust L981 (1/2) so that the test point is 8.5V ± 0.05V (HE), 1.5V ± 0.05V(EZ).

3. MW VT Check
   Settings : • Test point : TP2 (VT)
   Method : Set to MW 530kHz (HE), 1710kHz (U,LH), 1602kHz (EZ) and check that the test point is more than 0.3 (HE), 6.0V ± 1.0V (U,LH), less than 8.5 (EZ).

4. SW VT Adjustment <HE>
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L942
   Method : Set to SW 17.9MHz and adjust L942 so that the test point is 7.0V ± 0.05V.

5. LW VT Adjustment <EZ>
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L942
   Method : Set to LW 144kHz and adjust L942 so that the test point is 1.3V ± 0.05V.

6. FM VT Check
   Settings : • Test point : TP2 (VT)
   Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.5V (87.5MHz) and less than 8.5V (108.0MHz).

7. MW Tracking Adjustment <HE>
   Settings : • Test point : TP6,TP7
   • Adjustment location :
   L981 (2/2) 600kHz
   TC941 .... 1400kHz
   Method : Set up TC941 to center before adjustment, the level at 600kHz is adjust to maxmum by L981 (2/2). Then the level at 1400kHz is adjust to maximum by TC941.

8. SW Tracking Adjustment <HE>
   Settings : • Test point : TP6,TP7
   • Adjustment location :
   L941 .... 5.9MHz
   TC942 .... 17.9MHz
   Method : Set up TC942 to center before adjustment. The level at 5.9MHz is adjust to maximum by L941. Then the level at 17.9MHz is adjust to maximum by TC942.

9. LW Tracking Adjustment <EZ>
   Settings : • Test point : TP6, TP7
   • Adjustment location :
   L941 ....144kHz
   TC942 .... 290kHz
   Method : Set up TC942 to center before adjustment. The level at 144kHz is adjust to maximum by L941. Then the level at 290kHz is adjust to maximum by TC942.

10. FM Tracking Check
    Settings : • Test point : TP6, TP7
    Method : Set to FM 98.0MHz , and check that the test point is 2 ± 6dB (HE,LH,U), 6 ± 6dB (EZ).

11. DC Balance / Mono Distortion Adjustment
    Settings : • Test point : TP3, TP4 (DC Balance)
    : TP6, TP7 (Distortion)
    • Adjustment location : L771
    • Input level : 54dB
    Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V.
    Next, check that the distortion is less than 1.3%.

12. Auto Stop Level Check
    Settings : • Test point : TP5
    • Input level : Variable
    Method : Set to FM 98.0MHz and check voltage low (about 0.1V). After that voltage high (about 7.0V) by 2dB down and the level is 25 ± 10dB.

13. Auto Stop Level Check

    SW<HE>
    • Input level : Variable
    Method : Check auto stop at SW 12MHz and the level is less than 60dB.

    MW
    • Input level : Variable
    Method : Check auto stop at MW 999kHz (HE,EZ), MW 1000kHz (U,LH) and the level is 50 +10/-15dB.

    FM
    • Input level : Variable
    Method : Check auto stop at FM 98.0MHz and the level is 25 dB ± 10 dB.

< DECK SECTION >

14. Tape Speed Adjustment
    Settings : • Test tape : TTA–100
    • Test point : TP8, TP9
    • Adjustment location : SFR1
    Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz.

15. Head Azimuth Adjustment
    Settings : • Test tape : TTA–300
    • Test point : TP8, TP9
    • Adjustment location : Head azimuth adjustment screw
    Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum.

16. PB Frequency Response Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–300
    • Test point : TP8, TP9
    Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is ±2dB.

17. PB Sensitivity Adjustment (DECK 1, DECK 2)
    Settings : • Test tape : TTA–200
    • Test point : TP8, TP9
    • Adjustment location : SFR301 (DECK 1, Lch)
    SFR302 (DECK 1, Rch)
    SFR303 (DECK 2, Lch)
    SFR304 (DECK 2, Rch)
    Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 245mV.

18. REC/PB Frequency Response Adjustment
    Settings : • Test tape : TTA–602
    • Test point : TP8, TP9
    • Input signal : 1kHz / 10kHz (LINE IN)
    • Adjustment location : SFR351 (Lch)
    SFR352 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 17mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

19. REC/PB Sensitivity Adjustment
    Settings : • Test tape : TTA–602
    • Test point : TP8, TP9
    • Input signal : 1kHz (LINE IN)
    • Adjustment location : SFR305 (Lch)
    SFR306 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 17mV. Record and play back the 1kHz signals and adjust SFRs so that the output becomes 17mV ± 0.5dB.

20. Bias OSC Frequency Adjustment
    Settings : • Test tape : TTA–615
    • Test point : TP10
    • Adjustment location : L351
    Method : Set to the REC mode. Adjust L351 so that the frequency at the test point is 85kHz ± 1kHz.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : (THD 3%)	4dB ± 6dB (U,LH,HE) [at 87.5 / 98.0 / 108.0MHz (U,LH,HE)] 6dB ± 6dB (EZ) [at 87.5 / 98.0 / 108.0MHz (EZ)]
S/N 50dB Quieting sensitivity :	30dB ± 6dB (U,LH,HE) [at 87.5 / 98.0 / 108.0MHz (U,LH,HE)] 34dB ± 6dB (EZ) [at 87.5 / 98.0 / 108.0MHz (EZ)]
Signal to noise ratio :	Mono : More than 65dB (U,LH,HE) More than 60dB (EZ) Stereo : More than 64dB (U,LH,HE) More than 57dB (EZ) [at 98.0MHz]
Distortion :	Mono : Less than 1.3% Stereo : Less than 2.0% [at 98.0MHz]
Auto stop level :	25dB ± 10dB [at 98.0MHz]
Stereo separation :	U,LH,HE : More than 25dB [at 98.0MHz] EZ : More than 22dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

<MW SECTION>

Sensitivity : (S/N 20 dB)	50 ~ 60dB [at 600kHz(U,LH)] [at 603kHz(HE,EZ)] 48 ~ 58dB [at 1000kHz(U,LH)] [at 999kHz(HE,EZ)] 48 ~ 58dB [at 1400kHz(U,LH)] [at 1404kHz(HE,EZ)]
Signal to noise ratio :	More than 36dB [at 1000kHz(U,LH)] [at 999kHz(HE,EZ)]
Distortion :	Less than 1.5% [at 1000kHz(U,LH)] [at 999kHz(HE,EZ)]
Auto stop level :	50dB +10/-15dB [at 1000kHz(U,LH)] [at 999kHz(HE,EZ)]
Intermediate frequency :	450kHz

<LW SECTION> (EZ)

Sensitivity : (S/N 20 dB)	61 ~ 71dB [at 144kHz] 58 ~ 68dB [at 198kHz] 58 ~ 68dB [at 290kHz]
Signal to noise ratio :	More than 36dB [at 198kHz]
Distortion :	Less than 1.2% [at 198kHz]
Auto stop level :	66dB +10/-15dB [at 198kHz]
Intermediate frequency :	450kHz

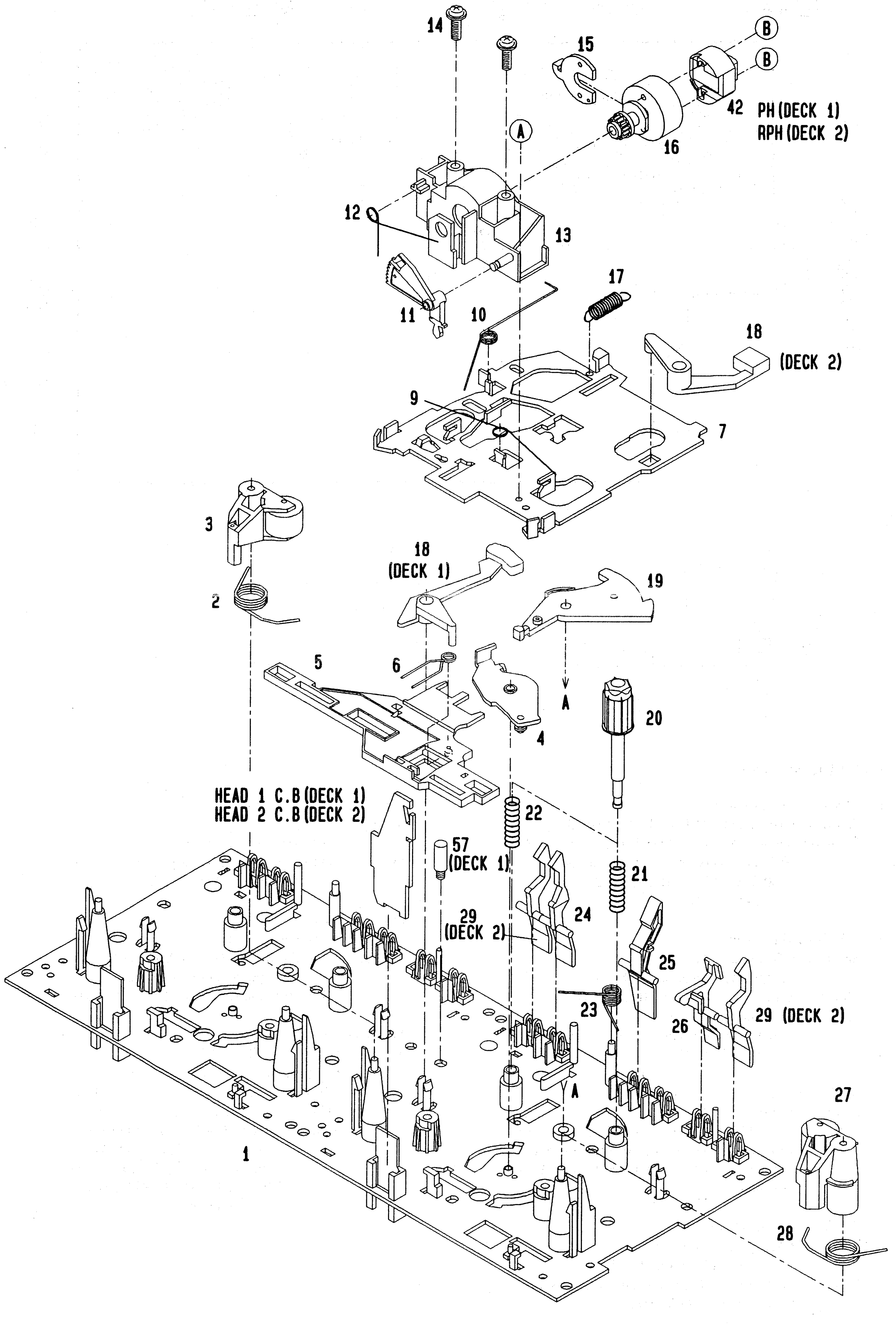
<SW SECTION> (HE)

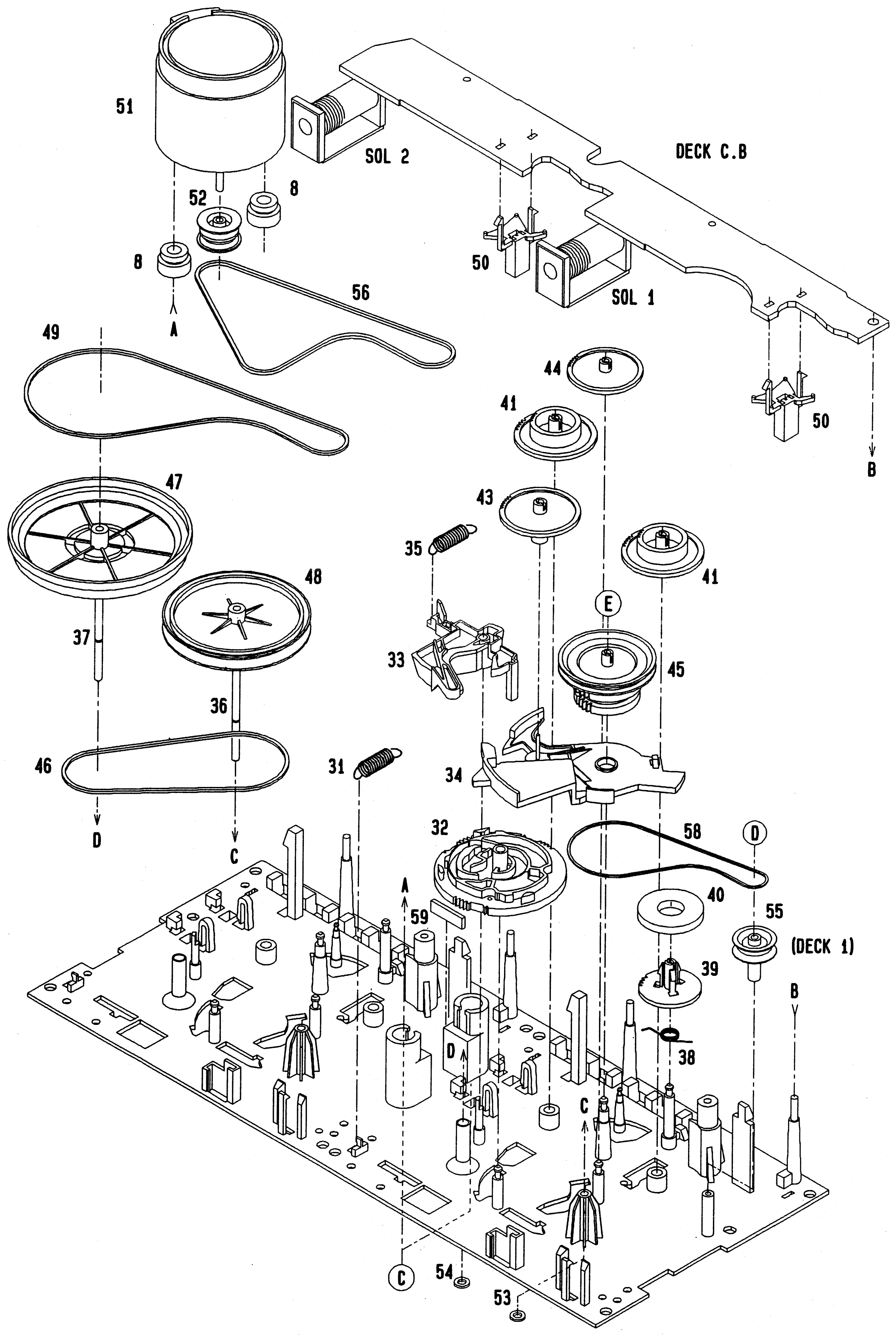
Sensitivity : (S/N 20 dB)	38 ± 5dB [at 5.9MHz] 33 ± 5dB [at 12.0 MHz] 30 ± 5dB [at 17.9MHz]
Signal to noise ratio :	More than 36dB [at 12.0MHz]
Distortion :	Less than 2.0% [at 12.0MHz]
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.15% (W.R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 180g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
PB output level :	300mV± 1dB (SP OUT 2V)
REC/PB output level :	170mV ± 1dB (SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0% (NORM, CrO_2)
Noise level (REC/PB) :	Less than 1.8mV (NORM, SP OUT 2V, DOLBY OFF) Less than 1.1mV (CrO_2, SP OUT 2V, DOLBY B,C ON)
Crosstalk :	More than 60dB (1kHz, 0VU)
Channel separation :	More than 30dB (1kHz, 0VU)
Erasing ratio :	More than 30dB (at 125Hz)
Test tape :	TTA–602 (NORMAL) TTA–615 (CrO_2)

TAPE MECHANISM EXPLODED VIEW 1/1



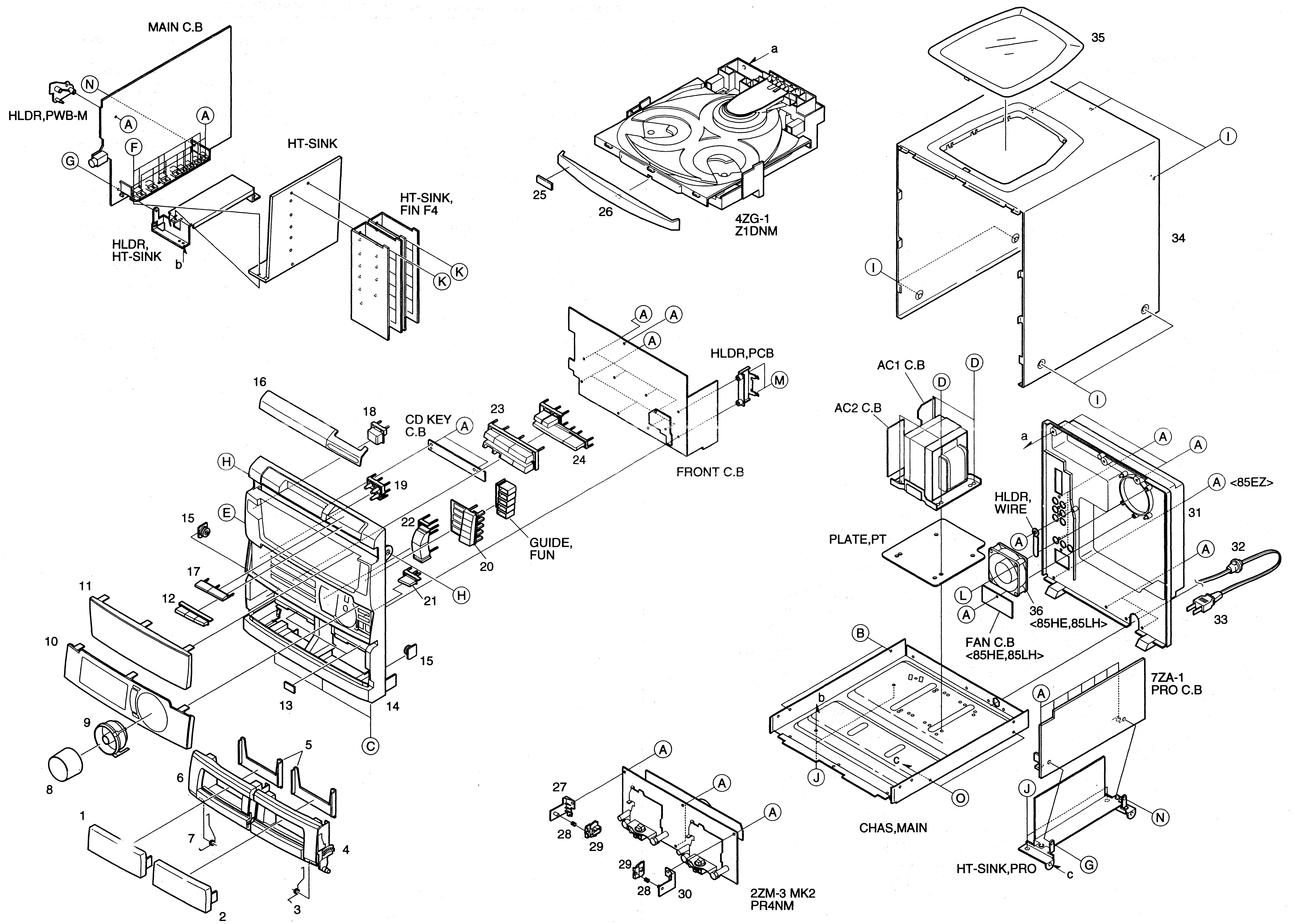


TAPE MECHANISM PARTS LIST 1 / 1

If can’t understand for Description please kindly refer to “ REFERENCE NAME LIST ”.

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-341-110		LVR ASSY,PINCH L2
4	82-ZM1-333-010		PLATE,LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-119		SPR-T,LINK
11	82-ZM1-210-119		GEAR,H T
12	82-ZM1-213-019		SPR-T,HEAD
13	82-ZM1-207-619		GUIDE,TAPE
14	86-ZM4-206-010		S-SCREW,AZIMUTH
15	82-ZM1-314-119		PLATE,HEAD
16	82-ZM1-208-119		HLDR,HEAD
17	82-ZM1-218-019		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K		LVR,PLAY
20	82-ZM1-217-319		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM1-241-319		LVR,MC
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-110		LVR ASSY,PINCH R2
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
31	82-ZM1-255-319		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-11K		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	82-ZM1-236-019		CAPSTAN N 2-41.5
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-31K		GEAR,REEL
42	87-A90-319-010		HEAD,PH HADKH2 FPC
42	87-A90-320-010		HEAD,RPH HADKH5 FPC
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
49	82-ZM3-329-210		BELT,SBU R2
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-221-010		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
56	82-ZM3-337-010		BELT,SBU MOT 2
57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
58	86-ZM1-206-010		BELT,MAIN L
59	82-ZM3-340-010		SH,BELT D2
A	85-ZM3-202-010		S-SCREW,TG
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-B10-043-010		W-P,0.99-4-0.25 SLT
E	82-ZM3-334-010		PW,2.16-6-0.4

MECHANICAL EXPLODED VIEW 1/1

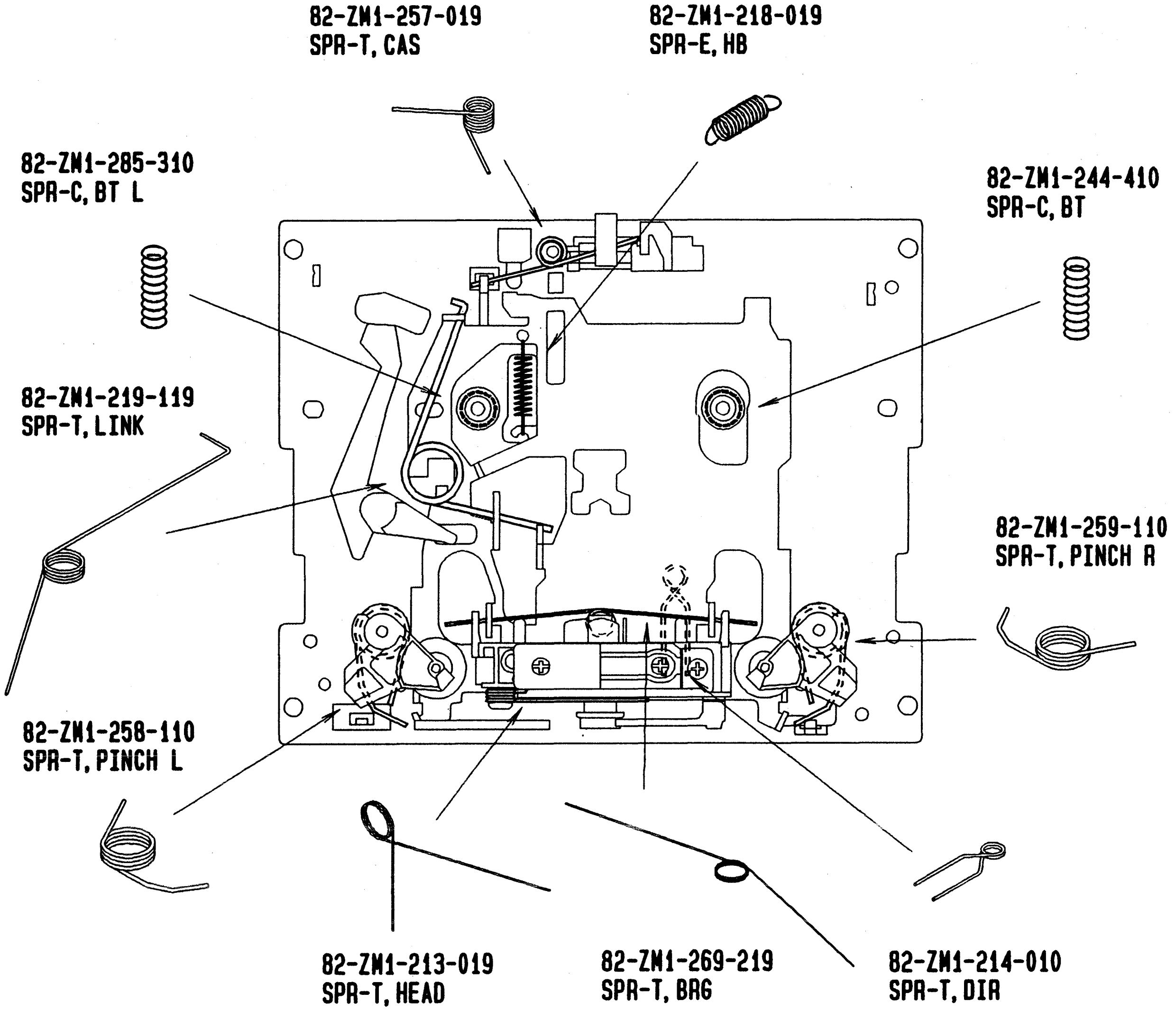

MAIN C.B
N
HLDR,PWB-M
A
A
F
G
HT-SINK
HLDR,
HT-SINK
b
HT-SINK,
FIN F4
K
K
a
25
26
4ZG-1
Z1DNM
35
I
34
I
I
A
A
A
HLDR,PCB
M
FRONT C.B
16
18
CD KEY
C.B
A
23
24
H
19
15
E
22
20
GUIDE,
FUN
17
21
H
11
12
10
13
14
15
C
9
8
5
6
1
7
4
2
3
AC1 C.B
D
D
AC2 C.B
a
A
A
A <85EZ>
31
HLDR,
WIRE
A
PLATE,PT
A
32
L
36
<85HE,85LH>
33
A
FAN C.B
<85HE,85LH>
B
b
7ZA-1
PRO C.B
A
c
J
O
J
N
CHAS,MAIN
G
HT-SINK,PRO
c
A
27
A
A
28
29
29
28
30
2ZM-3 MK2
PR4NM

MECHANICAL PARTS LIST 1 / 1

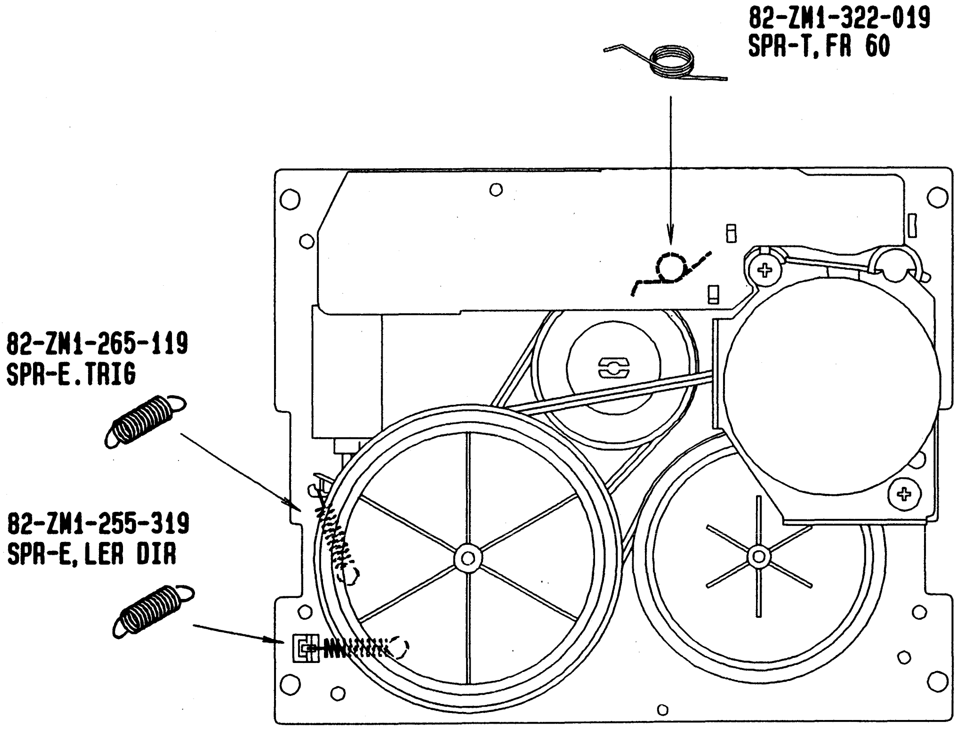
If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NF5-010-010		WINDOW,CASS 1
2	87-NF5-011-010		WINDOW,CASS 2
3	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
4	87-NF5-004-010		BOX,CASS 2H
5	86-NF6-061-010		REFLECTOR,CASS
6	87-NF5-003-010		BOX,CASS 1H
7	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
8	87-NF5-023-010		KNOB,RTRY VOL
9	87-NF5-007-010		RING,VOL
10	87-NF5-002-010		PANEL,FR H
11	87-NFS-009-010		WINDOW,DISP E<85EZ>
11	87-NFS-007-010		WINDOW,DISP H<EXCEPT 85EZ>
12	87-NF5-016-010		KEY,DISC
13	81-532-080-010		LABEL, CASS. COMPT
14	87-NFS-003-010		CABI,FR EZ<85EZ>
14	87-NFS-001-010		CABI,FR H<85HE,85LH>
14	87-NFS-002-010		CABI,FR U<70U>
15	87-063-165-010		OIL-DMPR 150
16	87-NF5-008-010		WINDOW,CD
17	87-NF5-015-010		KEY,OPEN
18	87-NF5-017-010		KEY,POWER
19	87-NF5-019-010		KEY,DEMO
20	87-NF5-018-010		KEY,FUN
21	87-NF5-020-010		KEY,VF
22	87-NFS-005-010		KEY,PRO
23	87-NF5-024-010		KEY,ASSY OPE
24	87-NF5-021-010		KEY,EDIT<EXCEPT 85EZ>
24	87-NF5-052-010		KEY,RDS<85EZ>
25	82-NE6-067-010		BADGE,AIWA 30N
26	87-NF5-005-010		PANEL,TRAY H
27	87-NF4-216-010		HLDR,LOCK 1
28	82-NF5-228-010		SPR-C,LOCK
29	82-NF5-229-010		PLATE,LOCK
30	87-NF4-217-010		HLDR,LOCK 2
31	87-NFS-019-110		CABI,REAR EZSTNM<85EZ>
31	87-NFS-017-110		CABI,REAR HEST<85HE>
31	87-NFS-018-110		CABI,REAR LHST<85LH>
31	87-NFS-016-210		CABI,REAR UST<70U>
32	87-085-185-010		BUSHING, AC CORD (E)<EXCEPT 70U>
32	87-085-189-010		BUSHING, CORD (U)<70U>
⚠ 33	87-050-053-010		AC CORD ASSY,U-2<70U>
⚠ 33	87-050-079-010		AC-CORD ASSY,E<EXCEPT 70U>
34	86-NH6-029-110		CABI,STEEL H-J TS<EXCEPT 85EZ>
34	86-NFT-005-110		CABI,STEEL TS<85EZ>
35	86-NF6-007-010		WINDOW,TOP<EXCEPT 70U>
35	86-NF6-101-010		WINDOW,TOP UL<70U>
36	87-A90-463-010		FAN,2408NL<85HE,85LH>
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-591-094-410		TAPPING SCREW, QIT+3-6
C	87-067-688-010		BVTT+3-6
D	87-078-191-010		S-SCREW,IT+4-10
E	87-723-096-410		QT2+3-10W/O SLOT BL
F	87-067-758-010		BVT2+3-12 W/O SLOT
G	87-067-633-010		TAPPING SCREW, BVT2+3-8
H	87-721-097-410		QT2+3-12 GLD
I	87-067-641-010		UTT2+3-8(W/O SLOT)BL
J	87-067-584-010		TAPPING SCREW, BVT2+3-6
K	87-067-690-010		BVIT3B+3-12 BLK
L	87-751-104-410		VT2+3-30<85HE,85LH>
M	87-067-581-010		TAPPING SCREW, BVT2+3-15
N	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
O	87-721-096-410		QT2+3-10 GLD

SPRING APPLICATION POSITION



82-ZM1-257-019
SPR-T, CAS
82-ZM1-218-019
SPR-E, HB
82-ZM1-285-310
SPR-C, BT L
82-ZM1-244-410
SPR-C, BT
82-ZM1-219-119
SPR-T, LINK
82-ZM1-259-110
SPR-T, PINCH R
82-ZM1-258-110
SPR-T, PINCH L
82-ZM1-213-019
SPR-T, HEAD
82-ZM1-269-219
SPR-T, BRG
82-ZM1-214-010
SPR-T, DIR



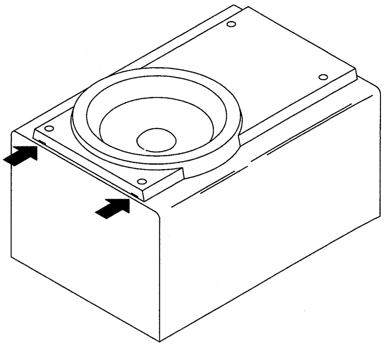
82-ZM1-322-019
SPR-T, FR 60
82-ZM1-265-119
SPR-E. TRIG
82-ZM1-255-319
SPR-E, LER DIR

SPEAKER DISASSEMBLY INSTRUCTIONS

Type.1

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

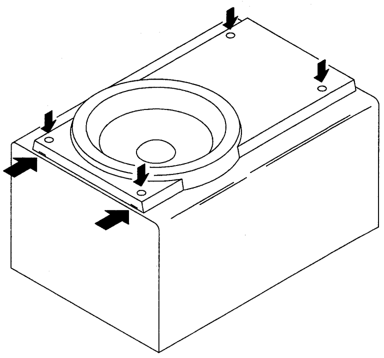
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. remove the screws of each speaker unit and then remove the speaker units.



Type.2

グリルフレームを外し、4個のゴムキャップをマイナスドライバーで端の方から持ち上げて外すと中にビスが有りますので、ビスを取り外します。矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

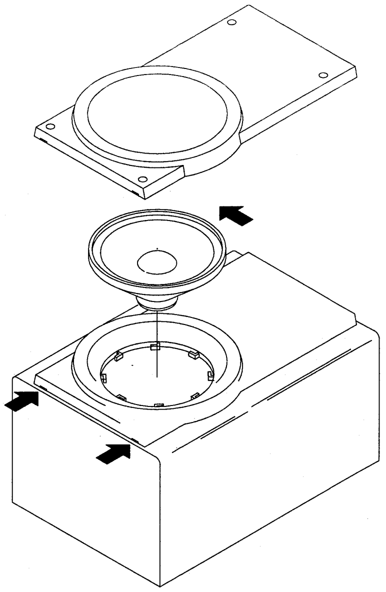
Remove the grill frame and four pieces fo rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.3

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットの凹にマイナスドライバーを差し込んで、反時計方向に回転させスピーカーユニットを外してください。スピーカーユニット交換後は時計方向にクリック音がするまで、回転させて取り付けます。

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until “click” sound comes out.



SPEAKER PARTS LIST (SX-NA74 <YU>)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NSE-001-010		PANEL,FR R
2	87-NSE-002-010		PANEL,FR L
3	87-NSF-003-010		PANEL,DUCT R
4	87-NSF-004-010		PANEL,DUCT L
5	87-NSE-012-010		GRILLE,FRAME ASSY R
6	87-NSE-014-010		GRILLE,FRAME ASSY L
7	87-NSF-602-010		SPKR,W 160
8	87-NSE-604-019		SPKR,T 80
9	87-NSF-610-019		SPKR,CORD

SPEAKER PARTS LIST (SX-R210<YU>)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-VS3-019-010		GRILLE FRAME ASSY B<YUAST>
1	83-VS3-004-010		GRILLE FRAME ASSY<YUST>
2	83-VS3-601-010		SPEAKER
3	81-VSA-010-010		SPEAKER,CORD

SPEAKER PARTS LIST (SX-C400<YU>)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSY-111-010		PANEL,FR ST
2	85-NSY-010-010		GRILLE FRAME ASSY<YUST>
2	85-NSY-017-010		GRILLE FRAME ASSY B<YUAST>
3	85-NSY-602-010		SPEAKER
4	83-NSM-010-010		SPEAKER,CORD

SPEAKER PARTS LIST (SX-NAV85 <YJT,YLT,YT,Y1T,YB>)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NSR-001-010		PANEL,FR R
2	87-NSR-002-010		PANEL,FR L
3	87-NSR-003-010		PANEL,TW
4	87-NSR-009-010		GRILLE,FRAME ASSY
5	83-096-614-010		SPEAKER CODE
6	87-NSU-610-010		TERMINAL,ASSY
7	87-NSS-602-010		SPKR,W 160
8	87-NSR-604-019		SPKR,T 80

SPEAKER PARTS LIST (SX-C423 <YJ, Y>)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSY-017-010		GRILLE FRAME ASSY B (C400<YJA,YA,YJ7A>)
1	85-NSY-010-010		GRILLE FRAME ASSY (C400<EXCEPT YJA,YA,YJ7A>)
2	85-NSY-001-010		PANEL,FR (C400<YJB,YB,YJ7B>)
2	85-NSY-011-010		PANEL,FR ST (C400<YST,ST,YJST,YJ7ST,YJA,YA,YJ7A>)
3	85-NSY-002-010		PANEL,REAR (C400<YJB,YB,YJ7B>)
3	85-NSY-012-010		PANEL,REAR ST (C400<YST,ST,YJST,YJ7ST,YJA,YA,YJ7A>)
4	85-NSY-602-010		SPEAKER (C400)
5	83-NSM-010-010		SPEAKER,CORD (C400)
6	85-NSX-015-010		GRILLE FRAME ASSY B (R230<YJA,YA,YJ7A>)
6	85-NSX-005-010		GRILLE FRAME ASSY (R230<EXCEPT YJA,YA,YJ7A>)
7	85-NSX-001-010		PANEL,FR (R230<YJB,YB,YJ7B>)
7	85-NSX-009-010		PANEL,FR (R230<YST,ST,YJST,YJ7ST,YJA,YA,YJ7A>)
8	85-NSX-002-010		PANEL,REAR (R230<YJB,YB,YJ7B>)
8	85-NSX-010-010		PANEL,REAR (R230<YST,ST,YJST,YJ7ST,YJA,YA,YJ7A>)
9	85-NSX-601-010		SPEAKER (R230)
10	81-VSA-010-010		SPEAKER,CORD(R230)

SPEAKER PARTS LIST (SX-R270 <YS,YU>)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS1-004-019		GRILLE,FRAME ASSY
2	81-VSA-010-019		SPKR,CORD
3	85-NSX-601-019		SPKR,100

SPEAKER PARTS LIST (SX-C600 <YU>)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS3-001-019		PANEL,FR ST
2	87-YS3-002-019		PANEL,REAR ST
3	87-YS3-003-019		GRILLE,FRAME ASSY
4	85-NSY-602-019		SPKR,10
3	83-NSM-010-019		SPKR,CORD

ACCESSORIES / PACKAGE LIST

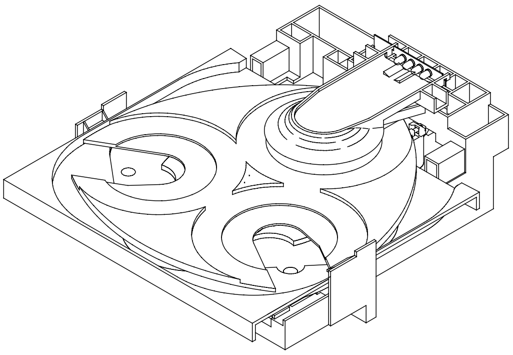
If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NFS-903-010		IB,U(ESF)M-71<USTNM>
1	87-NFS-910-010		IB,U(ESF)I<UST>
1	87-NFS-901-010		IB,H(ECA)M<HEJSTNM>
1	87-NFS-911-010		IB,H(ECA)I<HEST>
1	87-NFS-916-010		IB,E(EGFSI)M<ESTNM>
1	87-NFS-906-010		IB,E(EGFSI)E<ESTNE>
1	87-NFS-902-010		IB,LH(ES)M<LHSTNM>
1	87-NFS-912-010		IB,LH(ES)I<LHST>
2	87-NB7-651-010		RC UNIT,RC-7AS08
3	87-A90-064-010		FEEDER-ANT,FM (SHS)<EXCEPT EZ>
3	87-043-106-010		ANT,FM 1007 AWG<EZ>
⚠ 4	87-099-789-010		PLUG,CONVERSION IR44<HESTNM,LHSTNM>
⚠ 4	87-A90-312-010		PLUG,CONVERSION WTN-1157RI <HEST,LHST>
5	87-006-225-010		ANT,LOOP ANT NC2<EXCEPT HE>
5	87-A90-054-010		ANT,LOOP AM-CON C<HE>
6	87-043-095-010		ANT,WIRE<HE>

aiwa

aiwa SERVICE

4ZG-1



CD MECHANISM

- BASIC CD MECHANISM:3ZG-2 E1
- TYPE: English

SERVICE MANUAL

BASIC NAME	DERIVATION NAME					
4ZG-1	V	O	S1	D	SH	

■ This Service Manual has various derivation.Derivation name is indicated by the Service Manual for each model.

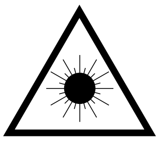
S/M Code No. 09-985-249-80T

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- ■ Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- ■ Advarsel: Usynling laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

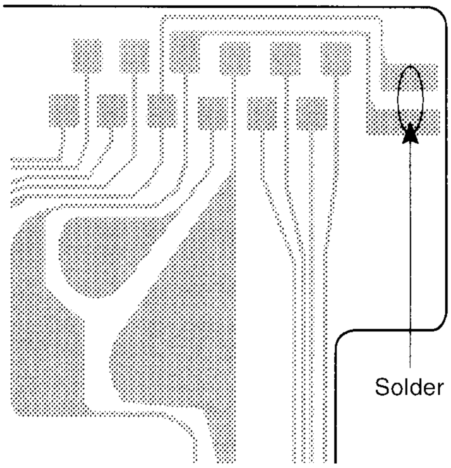
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block (KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

PICK-UP Assy P.C.B



This is the SERVICE MANUAL for the BASIC CD MECHANISM of BASIC NAME: 4ZG-1. This BASIC NAME includes the following models as shown under the SUFFIX name: DERIVATION NAME. Please use this manual with the separate SERVICE MANUAL for DERIVATION NAME.

BASIC CD MECHANISM: 4ZG-1 VOS1DSH

SUFFIX
(DERIVATION NAME)

BASIC NAME: 4ZG-1

BASIC NAME	DERIVATION NAME							
4ZG-1	V	O	S1	D	SH	—	—	—

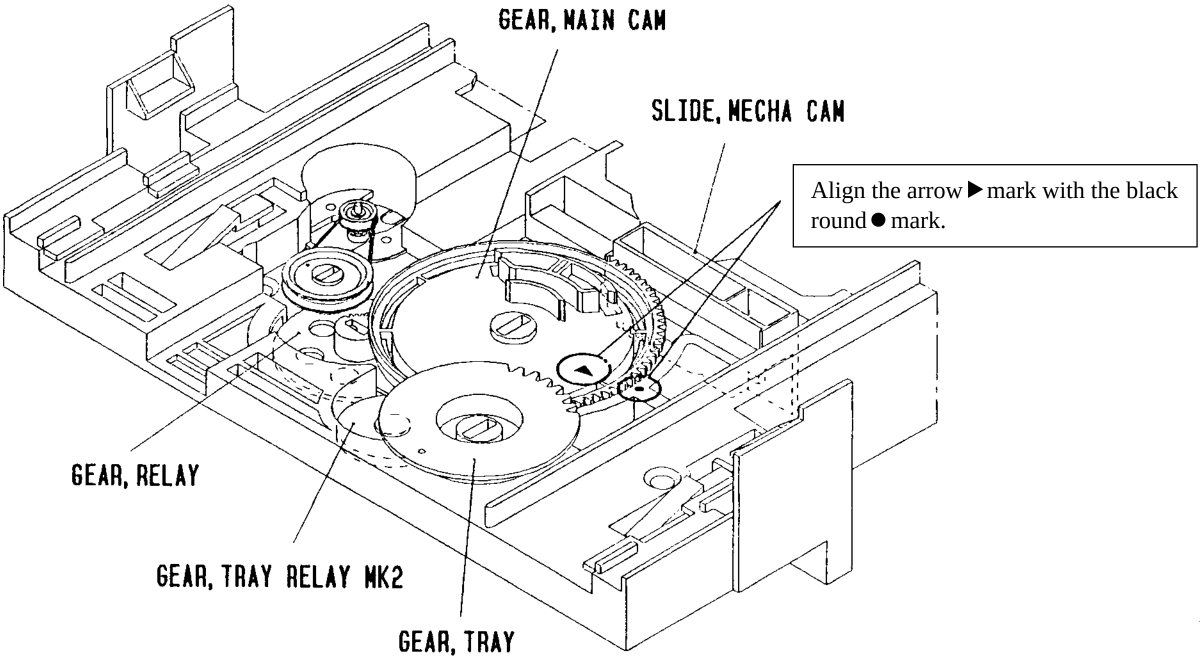
DERIVATION NAME

V: VIDEO OUT
O: On screen display
S1: THE 1st SONY IC MODEL
D: Digital output function
SH: Pick up equipped with shutter

How to Adjust the Rotating Phase of the Gear, Main Cam

1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.


GEAR, MAIN CAM
SLIDE, MECHA CAM
GEAR, RELAY
GEAR, TRAY RELAY MK2
GEAR, TRAY

Align the arrow ▶ mark with the black round ● mark.

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

IC

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
	87-A20-547-010		C-IC,CXA1992AR
	87-A20-919-040		C-IC,BA5915FP
	87-A20-917-010		C-IC,CXD2540Q-1/2
	84-ZG1-697-010		C-IC,UPD78016FGC-549
	87-017-825-010		IC,GP1F32T
	87-017-760-080		IC,M51943BML
	87-A20-602-040		C-IC,M5291FP
	87-A20-925-040		C-IC,BA05FP
	87-A20-905-040		C-IC,BA033FP
	87-001-873-010		IC,LB1644
	87-A20-920-010		C-IC,CL680-D1
	87-A20-921-040		C-IC,SN74LVU04APW
	87-A20-656-040		C-IC,MB81V4260S-60/70PFTN
	84-ZG1-695-040		C-IC,LH5V2RN1
	87-A20-975-040		C-IC,SN74LV74APW
	87-A20-974-040		C-IC,LC74781M-9017
	87-A20-918-040		C-IC,SM5878AM

TRANSISTOR

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
	87-026-463-080		TR,2SA933S (0.3W)
	87-026-237-080		CHIP-TR,DTC124XK
	89-327-125-080		CHIP TR,2SC2712GR
	87-026-231-080		CHIP-TRANSISTER,DTA124XK
	87-A30-117-010		TR,2SA1357
	89-111-625-080		TR,2SA1162 (0.15W)
	87-026-580-080		C-TR,DTA123JK
	87-026-470-080		TR,HN1C03F (0.3W)

DIODE

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
	87-020-027-080		CHIP-DIODE 1SS184
	87-017-024-040		C-DIODE,DA204K
	87-A40-180-040		C-DIODE,SB07-015C
	87-A40-384-080		C-ZENER,UDZ3.3B

3CD C.B

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C101	87-010-182-080		C-CAP,S 2200P-50 B
C102	87-016-669-080		C-CAP,S 0.1-25 K B
C103	87-016-669-080		C-CAP,S 0.1-25 K B
C104	87-016-669-080		C-CAP,S 0.1-25 K B
C105	87-010-404-040		CAP,E 4.7-50 SME
C106	87-016-369-080		C-CAP,S 0.033-25 B K
C107	87-010-197-080		CAP, CHIP 0.01 DM
C108	87-010-401-040		CAP,E 1-50 SME
C109	87-010-382-040		CAP,E 22-25 SME
C110	87-010-213-080		C-CAP,S 0.015-50 B
C111	87-010-263-040		CAP,E 100-10
C112	87-010-197-080		CAP, CHIP 0.01 DM
C113	87-016-369-080		C-CAP,S 0.033-25 B K
C114	87-016-369-080		C-CAP,S 0.033-25 B K
C115	87-016-369-080		C-CAP,S 0.033-25 B K
C116	87-012-158-080		C-CAP,S 390P-50 CH
C117	87-012-154-080		C-CAP,S 150P-50 CH
C118	87-010-494-040		CAP,E 1-50 GAS
C119	87-010-152-080		C-CAP,S 8P-50 CH
C120	87-010-992-080		C-CAP,S 0.047-25 B
C121	87-010-992-080		C-CAP,S 0.047-25 B
C123	87-016-669-080		C-CAP,S 0.1-25 K B
C125	87-010-198-080		CAP, CHIP 0.022
C126	87-016-669-080		C-CAP,S 0.1-25 K B
C127	87-010-555-040		CAP,E 100-10 GAS
C130	87-010-555-040		CAP,E 100-10 GAS
C131	87-010-555-040		CAP,E 100-10 GAS
C132	87-010-178-080		CHIP CAP 1000P
C133	87-010-555-040		CAP,E 100-10 GAS
C134	87-010-196-080		CHIP CAPACITOR,0.1-25
C135	87-010-196-080		CHIP CAPACITOR,0.1-25
C136	87-010-196-080		CHIP CAPACITOR,0.1-25
C137	87-010-196-080		CHIP CAPACITOR,0.1-25
C138	87-010-182-080		C-CAP,S 2200P-50 B
C139	87-010-197-080		CAP, CHIP 0.01 DM
C140	87-010-112-040		CAP,E 100-16
C141	87-010-196-080		CHIP CAPACITOR,0.1-25
C142	87-010-196-080		CHIP CAPACITOR,0.1-25
C143	87-010-213-080		C-CAP,S 0.015-50 B
C151	87-010-263-040		CAP,E 100-10
C152	87-010-197-080		CAP, CHIP 0.01 DM
C153	87-A10-893-040		CAP,E 220-10 M PW
C154	87-010-197-080		CAP, CHIP 0.01 DM
C155	87-010-184-080		CHIP CAPACITOR 3300P(K)
C156	87-010-992-080		C-CAP,S 0.047-25 B
C157	87-010-992-080		C-CAP,S 0.047-25 B
C158	87-012-156-080		C-CAP,S 220P-50 CH
C159	87-016-526-080		C-CAP,S 0.47-16 BK
C160	87-010-314-080		C-CAP,S 22P-50V
C161	87-010-182-080		C-CAP,S 2200P-50 B
C162	87-010-178-080		CHIP CAP 1000P
C201	87-016-669-080		C-CAP,S 0.1-25 K B
C204	87-010-197-080		CAP, CHIP 0.01 DM
C205	87-010-379-040		CAP,E 22-16 M SME
C206	87-010-322-080		C-CAP,S 100P-50 CH
C207	87-010-322-080		C-CAP,S 100P-50 CH
C208	87-010-322-080		C-CAP,S 100P-50 CH
C209	87-010-322-080		C-CAP,S 100P-50 CH
C210	87-016-669-080		C-CAP,S 0.1-25 K B
C211	87-010-263-040		CAP,E 100-10
C213	87-010-190-080		S CHIP F 0.01
C214	87-010-196-080		CHIP CAPACITOR,0.1-25
C301	87-016-251-040		CAP,E 220-16 SMG
C302	87-012-140-080		CAP 470P
C303	87-010-178-080		CHIP CAP 1000P
C304	87-010-384-040		CAP,E 100-25 SME
C305	87-010-982-040		CAP,E 33-25 GAS
C306	87-010-112-040		CAP,E 100-16
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C308	87-010-263-040		CAP,E 100-10
C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-263-040		CAP,E 100-10
C311	87-010-196-080		CHIP CAPACITOR,0.1-25
C312	87-010-178-080		CHIP CAP 1000P
C320	87-010-196-080		CHIP CAPACITOR,0.1-25
C401	87-016-044-040		CAP,E 100-16 GAS
C402	87-010-190-080		S CHIP F 0.01
C403	87-010-190-080		S CHIP F 0.01
C501	87-010-197-080		CAP, CHIP 0.01 DM
C502	87-010-197-080		CAP, CHIP 0.01 DM
C503	87-010-197-080		CAP, CHIP 0.01 DM
C504	87-010-154-080		CAP CHIP 10P
C505	87-010-154-080		CAP CHIP 10P
C506	87-010-197-080		CAP, CHIP 0.01 DM
C508	87-010-263-040		CAP,E 100-10
C509	87-016-669-080		C-CAP,S 0.1-25 K B
C510	87-010-263-040		CAP,E 100-10
C511	87-016-669-080		C-CAP,S 0.1-25 K B
C512	87-010-197-080		CAP, CHIP 0.01 DM
C513	87-010-197-080		CAP, CHIP 0.01 DM
C514	87-010-197-080		CAP, CHIP 0.01 DM
C518	87-010-322-080		C-CAP,S 100P-50 CH
C519	87-012-145-080		CAP, CHIP S 270P CH
C520	87-012-157-080		C-CAP,S 330P-50 CH
C521	87-012-154-080		C-CAP,S 150P-50 CH
C522	87-010-371-080		CAP, ELECT 470-6.3V
C523	87-010-197-080		CAP, CHIP 0.01 DM
C524	87-010-197-080		CAP, CHIP 0.01 DM
C525	87-010-197-080		CAP, CHIP 0.01 DM
C526	87-010-197-080		CAP, CHIP 0.01 DM

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C527	87-010-197-080		CAP, CHIP 0.01 DM
C528	87-010-197-080		CAP, CHIP 0.01 DM
C529	87-010-197-080		CAP, CHIP 0.01 DM
C530	87-010-197-080		CAP, CHIP 0.01 DM
C531	87-010-197-080		CAP, CHIP 0.01 DM
C532	87-010-374-040		CAP,E 47-10
C533	87-010-197-080		CAP, CHIP 0.01 DM
C534	87-010-555-040		CAP,E 100-10 GAS
C535	87-010-197-080		CAP, CHIP 0.01 DM
C536	87-010-078-040		CAP,E 47-6.3 5L
C537	87-010-197-080		CAP, CHIP 0.01 DM
C538	87-010-196-080		CHIP CAPACITOR,0.1-25
C539	87-016-669-080		C-CAP,S 0.1-25 K B
C540	87-010-078-040		CAP,E 47-6.3 5L
C541	87-010-197-080		CAP, CHIP 0.01 DM
C542	87-010-318-080		C-CAP,S 47P-50 CH
C544	87-010-197-080		CAP, CHIP 0.01 DM
C546	87-010-197-080		CAP, CHIP 0.01 DM
C549	87-010-494-040		CAP,E 1-50 GAS
C550	87-010-196-080		CHIP CAPACITOR,0.1-25
C551	87-012-153-080		C-CAP,S 120P-50 CH
C552	87-016-526-080		C-CAP,S 0.47-16 BK
C554	87-010-197-080		CAP, CHIP 0.01 DM
C556	87-010-378-040		CAP,E 10-16
C557	87-010-316-080		C-CAP,S 33P-50 CH
C558	87-010-315-080		C-CAP,S 27P-50 CH
C560	87-010-197-080		CAP, CHIP 0.01 DM
C601	87-010-197-080		CAP, CHIP 0.01 DM
C602	87-010-197-080		CAP, CHIP 0.01 DM
C603	87-010-112-040		CAP,E 100-16
C604	87-010-196-080		CHIP CAPACITOR,0.1-25
C605	87-010-197-080		CAP, CHIP 0.01 DM
C606	87-010-197-080		CAP, CHIP 0.01 DM
C607	87-010-313-080		CAP, CHIP 18P
C608	87-010-313-080		CAP, CHIP 18P
C609	87-010-178-080		CHIP CAP 1000P
C610	87-010-178-080		CHIP CAP 1000P
C611	87-010-178-080		CHIP CAP 1000P
C612	87-010-178-080		CHIP CAP 1000P
C613	87-010-403-040		CAP,E 3.3-50 SME
C614	87-010-403-040		CAP,E 3.3-50 SME
C615	87-010-318-080		C-CAP,S 47P-50 CH
C616	87-010-318-080		C-CAP,S 47P-50 CH
CN101	87-A60-424-010		CONN,16P V TOC-B
CN102	87-099-199-010		CONN,6P 6216 H
CN401	87-099-212-010		CONN,5P 6216 V
CN403	87-099-030-010		CONN,13P 6216H
J501	87-009-502-010		JACK,PIN 1P Y EARTH
L101	87-005-196-080		COIL,10UH
L301	87-A50-095-010		COIL,68UH RCR875D
L302	87-005-426-080		COIL,3.3UH K FLR50
L502	87-005-204-080		COIL,47UH
L503	87-005-189-080		COIL 2.7UH
L504	87-005-187-080		COIL,1.8UH
L505	87-005-204-080		COIL,47UH
L506	87-005-204-080		COIL,47UH
L507	87-005-204-080		COIL,47UH
L508	87-005-817-080		C-COIL, 33UH J FLC32
M401	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
R130	87-022-364-080		C-RES,S 82K-1/10W F
R131	87-022-364-080		C-RES,S 82K-1/10W F
R132	87-022-364-080		C-RES,S 82K-1/10W F
R133	87-022-364-080		C-RES,S 82K-1/10W F
R134	87-022-364-080		C-RES,S 82K-1/10W F
R135	87-022-364-080		C-RES,S 82K-1/10W F
R507	87-A00-408-080		C-RES,S 2K-1/10W D
S201	87-A90-162-010		SW,SL 1-1-3 SSSU
S401	87-036-109-010		PUSH SWITCH
S402	87-036-109-010		PUSH SWITCH
W1	84-ZG1-673-010		F-CABLE,5P 1.25 210MM BLACK N
W2	85-NFT-611-110		FF-CABLE 16P-1.0
W3	84-ZG1-630-010		CABLE FFC 6P-1.25
X201	87-A70-124-080		VIB,CER 8.0MHZ
X501	87-A70-125-080		VIB,XTAL 27MHZ 50PPM
X601	87-030-270-080		VIB,XTAL 16.9344MHZ

LED C.B

LED401	87-070-200-080		LED,SLP636C-81-S-T1
LED402	87-017-350-080		LED,SEL1550CM
LED403	87-017-350-080		LED,SEL1550CM
LED404	87-070-200-080		LED,SLP636C-81-S-T1

T-T C.B

C401	87-018-214-080		CAP TC U 0.1-50F
CON401	86-NFZ-675-010		CONN,5P H 6216-11H
PS401	87-026-573-010		IC,GP1S53V

DRIVE C.B

CN3	87-009-349-010		CONN,6P H WHT PH
M20	87-045-358-010		MOT,RF-310TA 43
M21	87-045-356-010		MOT,RF-310TA 30
SW1	87-A90-042-010		SW,LEAF MSW-17310MVPO

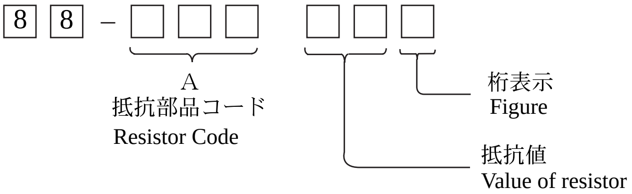
CD MOTOR C.B

CN4	87-099-210-010		CONN,5P H BLK 6216
M1	87-045-305-010		MOT,RF-500TB
SW1	87-035-110-010		SW,MICRO SPPB62
SW2	87-035-110-010		SW,MICRO SPPB62

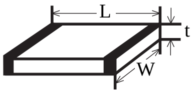
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

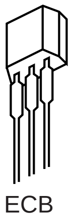
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding


8 8 – □□□ □□□
A
抵抗部品コード
Resistor Code
桁表示
Figure
抵抗値
Value of resistor

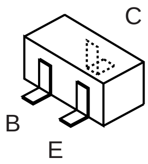
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法 / Diamensions (mm)				抵抗コード :A Resistor Code : A
				外形 / Form	L	W	t	
1/16W	1608	5%	CJ		1.6	0.8	0.45	108
1/10W	2125	5%	CJ		2	1.25	0.45	118
1/8W	3216	5%	CJ		3.2	1.6	0.55	128

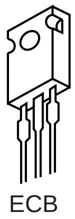
TRANSISTOR ILLUSTRATION



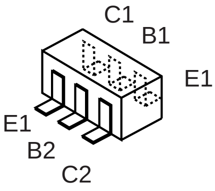
2SA933S



2SA1162
2SC2712
DTA123JK
DTA124XK
DTC124XK

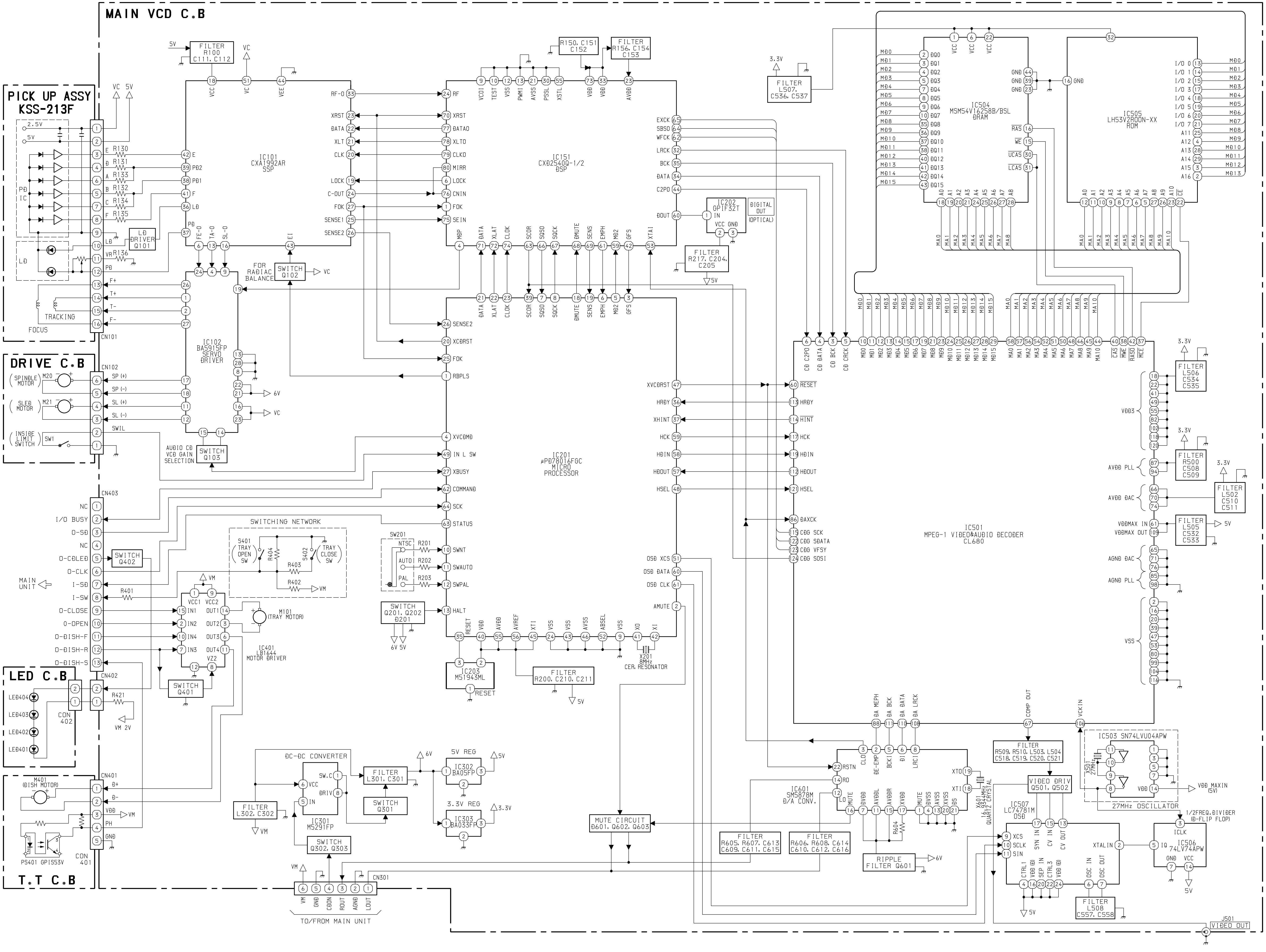


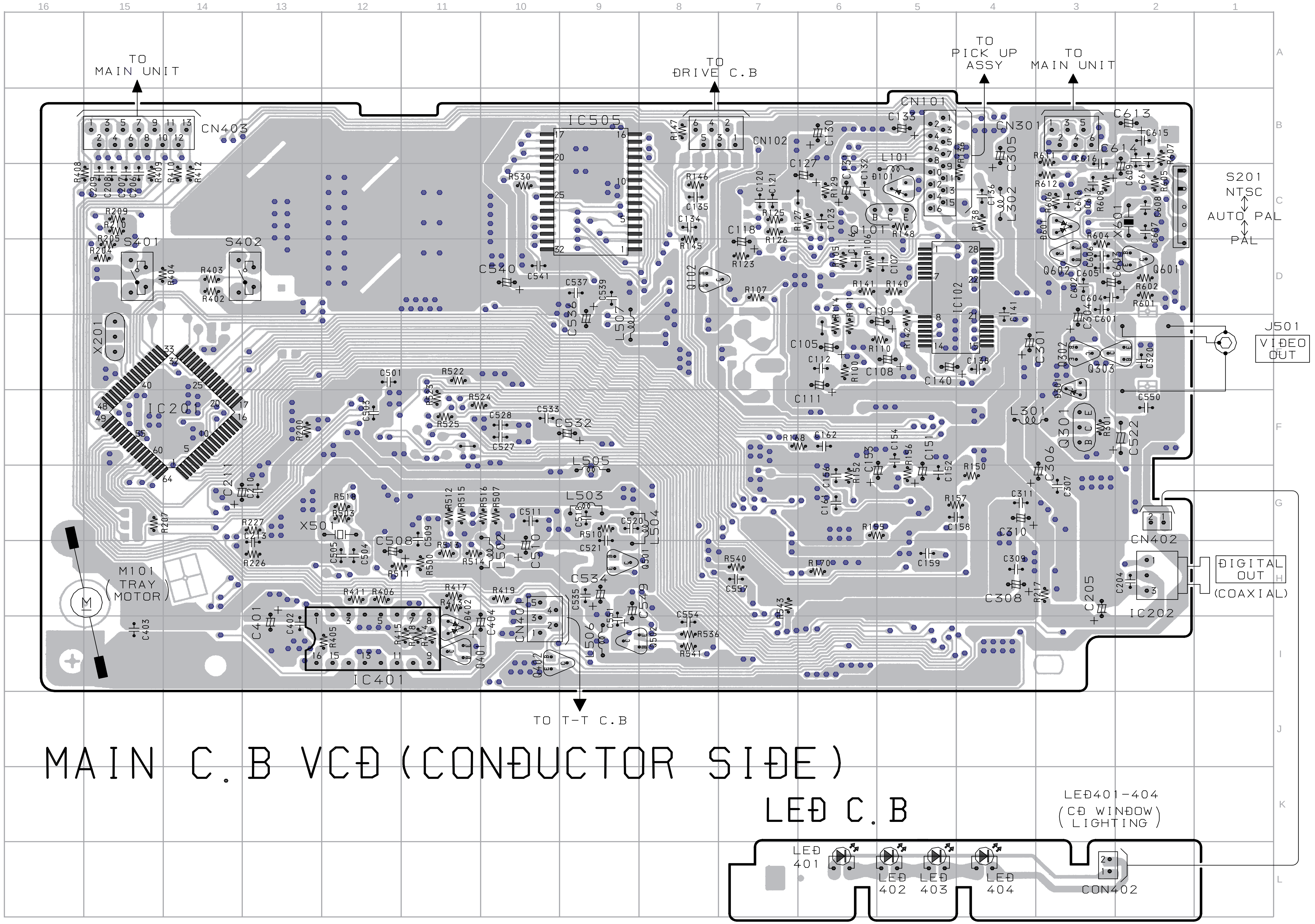
2SA1357


C1
B1
E1
E1
B2
C2

HN1C03F

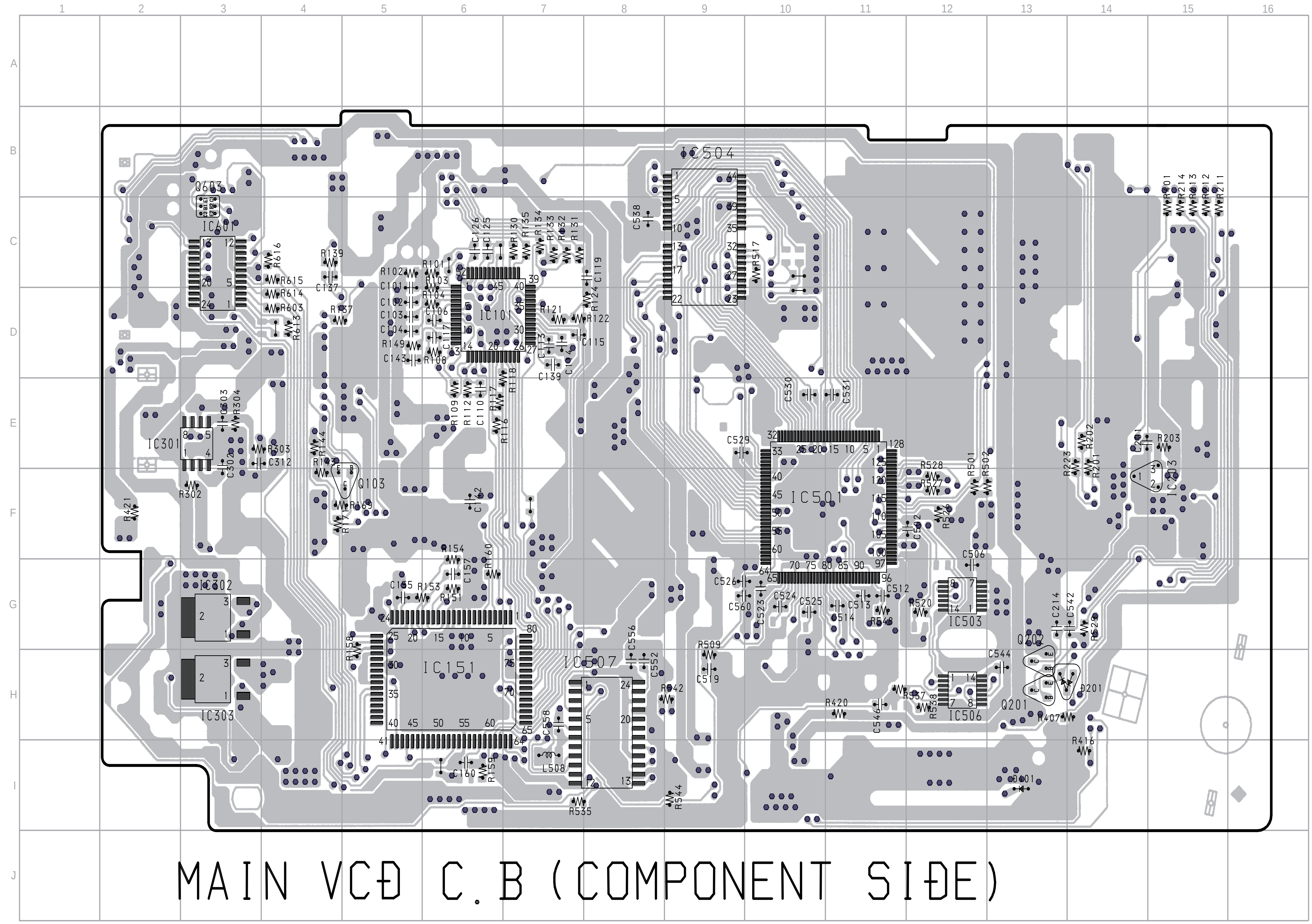
BLOCK DIAGRAM


MAIN VCD C.B
PICK UP ASSY
KSS-213F
PD IC
LD
TRACKING
FOCUS
CN101
LD DRIVER Q101
R130
R131
R133
R132
R134
R135
R136
FILTER R100 C111, C112
IC101 CXA1992AR SSP
IC102 BA5915FP SERVO DRIVER
FOR RADIAC BALANCE
SWITCH Q102
AUDIO CD VCD GAIN SELECTION
SWITCH Q103
DRIVE C.B
CN102
SPINDLE MOTOR M20
SLED MOTOR M21
INSIDE LIMIT SWITCH SW1
SP (+)
SP (-)
SL (+)
SL (-)
SWIL
R150, C151 C152
FILTER R156, C154 C153
IC151 CXD2540Q-1/2 DSP
IC202 GP1F32T
DIGITAL OUT (OPTICAL)
FILTER R217, C204, C205
IC201 μPD78016FGC MICRO PROCESSOR
IC203 M51943ML
RESET
FILTER R200, C210, C211
X201 8MHz CER. RESONATOR
SWITCH Q201, Q202 D201
SW201
NTSC
AUTO
PAL
R201
R202
R203
CN403
NC
I/O BUSY
O-SD
NC
O-CDLED
O-CLK
I-SD
I-SW
O-CLOSE
O-OPEN
O-DISH-F
O-DISH-R
O-DISH-S
MAIN UNIT
SWITCH Q402
SWITCHING NETWORK
S401 TRAY OPEN SW
S402 TRAY CLOSE SW
R401
R402
R403
R404
IC401 LB1644 MOTOR DRIVER
M101 (TRAY MOTOR)
SWITCH Q401
LED C.B
LED404
LED403
LED402
LED401
CON 402
CN402
R421
VM 2V
T.T C.B
M401 (DISH MOTOR)
PS401 GP1S53V
CON 401
CN401
D+
D-
VDD
PH
GND
DC-DC CONVERTER
IC301 M5291FP
FILTER L301, C301
SWITCH Q301
FILTER L302, C302
SWITCH Q302, Q303
5V REG
IC302 BA05FP
3.3V REG
IC303 BA033FP
CN301
VM
GND
CDON
ROUT
AGND
LOUT
TO/FROM MAIN UNIT
MUTE CIRCUIT D601, Q602, Q603
FILTER R605, R607, C613 C609, C611, C615
FILTER R606, R608, C614 C610, C612, C616
IC601 SM5878M D/A CONV.
RIPPLE FILTER Q601
X601 16.9344MHz QUARTZ CRYSTAL
FILTER L507, C536, C537
IC504 MSM54V16258B/BSL DRAM
IC505 LH53V2R00N-XX ROM
IC501 MPEG-1 VIDEO&AUDIO DECODER CL680
FILTER L506 C534 C535
FILTER R500 C508 C509
FILTER L502 C510 C511
FILTER L505 C532 C533
VDD3
AVDD PLL
AVDD DAC
VDDMAX IN
VDDMAX OUT
AGND DAC
AGND PLL
VSS
COMP OUT
VCKIN
FILTER R509, R510, L503, L504 C518, C519, C520, C521
VIDEO DRIV Q501, Q502
IC507 LC74781M OSD
IC503 SN74LVU04APW
X501 27MHz
27MHz OSCILLATOR
VDD MAXIN (5V)
1/2FREQ.DIVIDER (D-FLIP FLOP)
IC506 74LV74APW
FILTER L508 C557, C558
J501 VIDEO OUT


TO MAIN UNIT
CN403
TO DRIVE C.B
CN102
TO PICK UP ASSY
CN101
TO MAIN UNIT
CN301
S201
NTSC
AUTO PAL
PAL
J501
VIDEO OUT
IC505
IC102
IC201
IC401
IC202
X201
X501
X601
S401
S402
M101
TRAY MOTOR
CN401
CN402
DIGITAL OUT
(COAXIAL)
TO T-T C.B
Q101
Q102
Q301
Q302
Q303
Q401
Q402
Q501
Q502
Q601
Q602
L101
L301
L302
L502
L503
L504
L505
L506
L507
LED401-404
(CD WINDOW LIGHTING)
LED 401
LED 402
LED 403
LED 404
CON402

MAIN C.B VCD (CONDUCTOR SIDE)

LED C.B


1
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9
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11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
Q603
IC601
R616
R615
R614
R603
R613
R139
C137
R137
R102
R101
R103
C101
C102
R104
C103
C106
C104
C117
R149
C143
R108
IC101
C126
C125
R130
R135
R134
R133
R132
R131
C119
R124
R121
R122
C113
C114
C115
C139
R109
R112
C110
R117
R116
R118
IC301
C303
R304
C302
R302
R303
C312
R144
R143
Q103
R163
R171
R421
C142
R154
R160
C157
C155
R153
R151
IC302
IC303
R158
IC151
R159
C160
C558
L508
IC507
C556
C552
R535
R544
R542
C538
IC504
R517
C530
C531
C529
IC501
C526
C560
C523
C524
C525
C513
C514
C512
R548
R509
C519
R420
C546
R537
R538
R528
R527
R529
C532
R501
R502
C506
IC503
R520
IC506
C544
C214
C542
Q202
R529
Q201
D201
R407
R416
D401
R223
R202
R201
C201
R203
IC203
R201
R214
R213
R212
R211

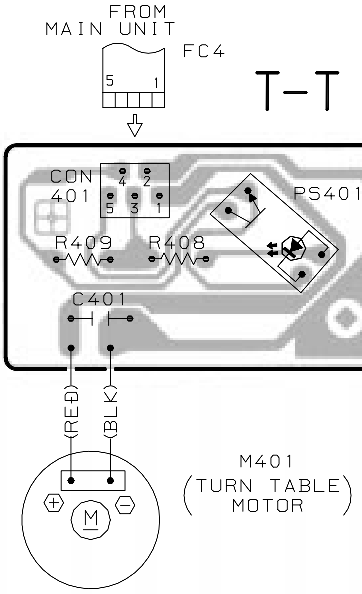
MAIN VCD C.B (COMPONENT SIDE)

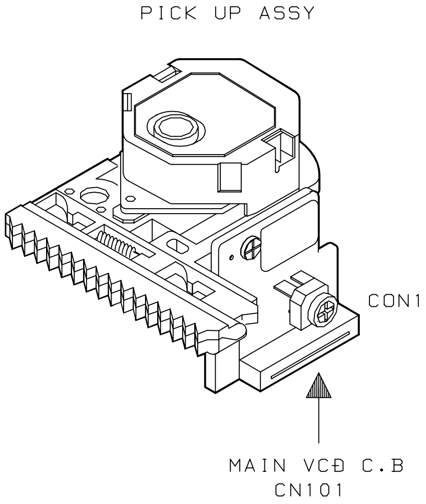
WIRING-3

1 2 3 4 5 6 7

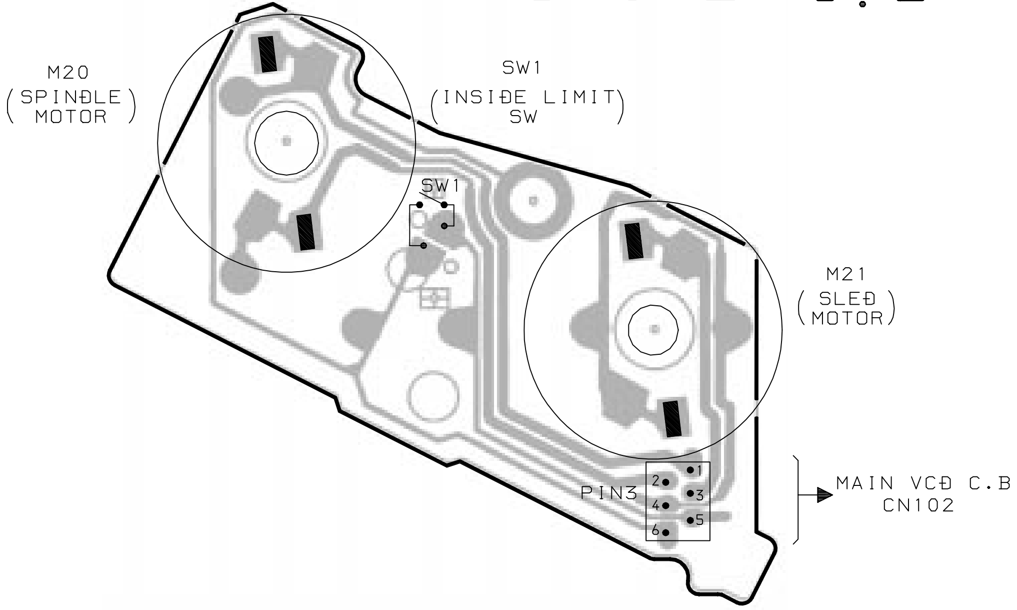
A B C D E F G H I J

T-T C.B

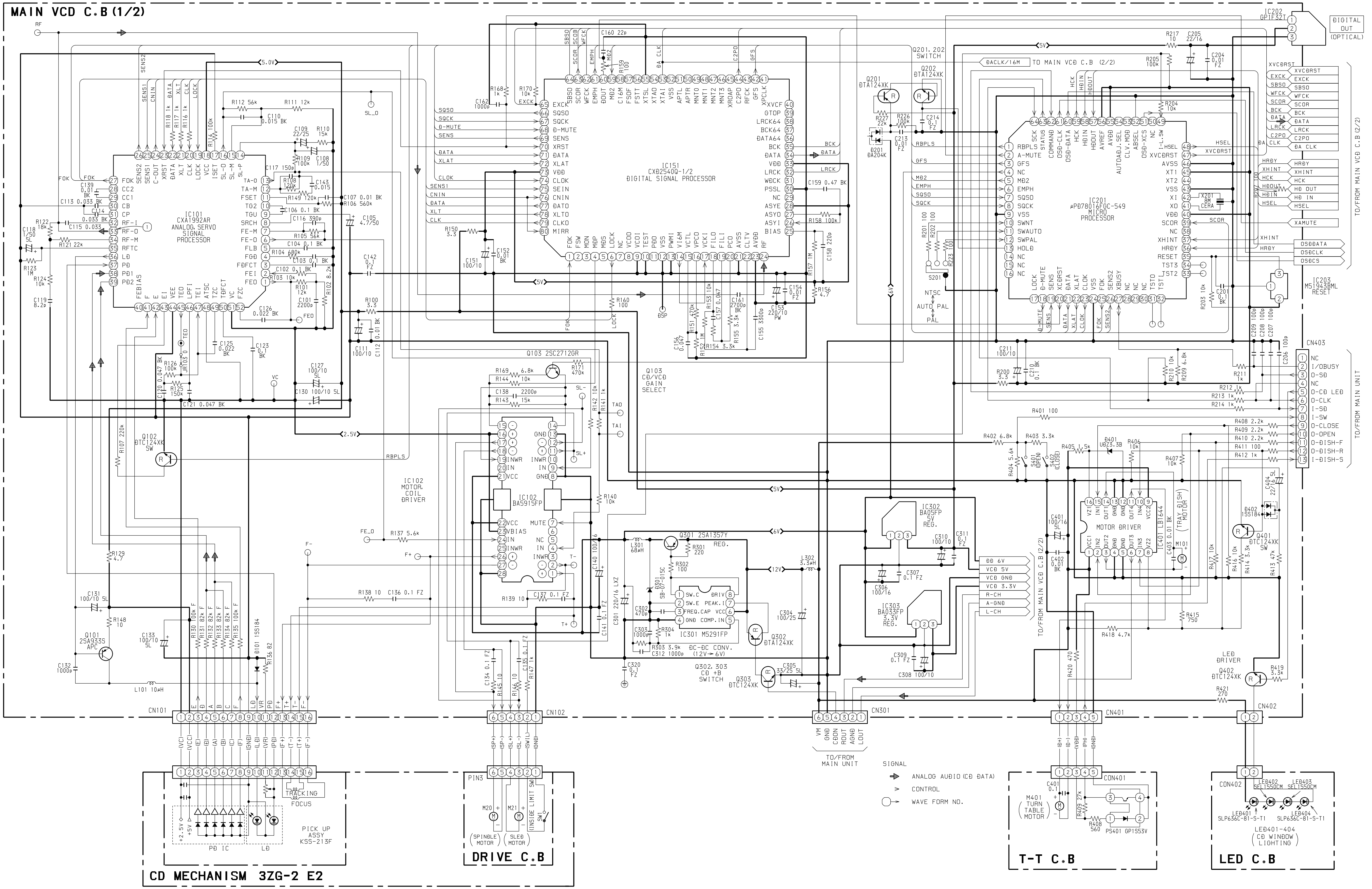

FROM
MAIN UNIT
FC4
5
1
CON
401
4
2
5
3
1
PS401
R409
R408
C401
(RED)
(BLK)
M401
(TURN TABLE
MOTOR)
M


PICK UP ASSY
CON1
MAIN VCD C.B
CN101

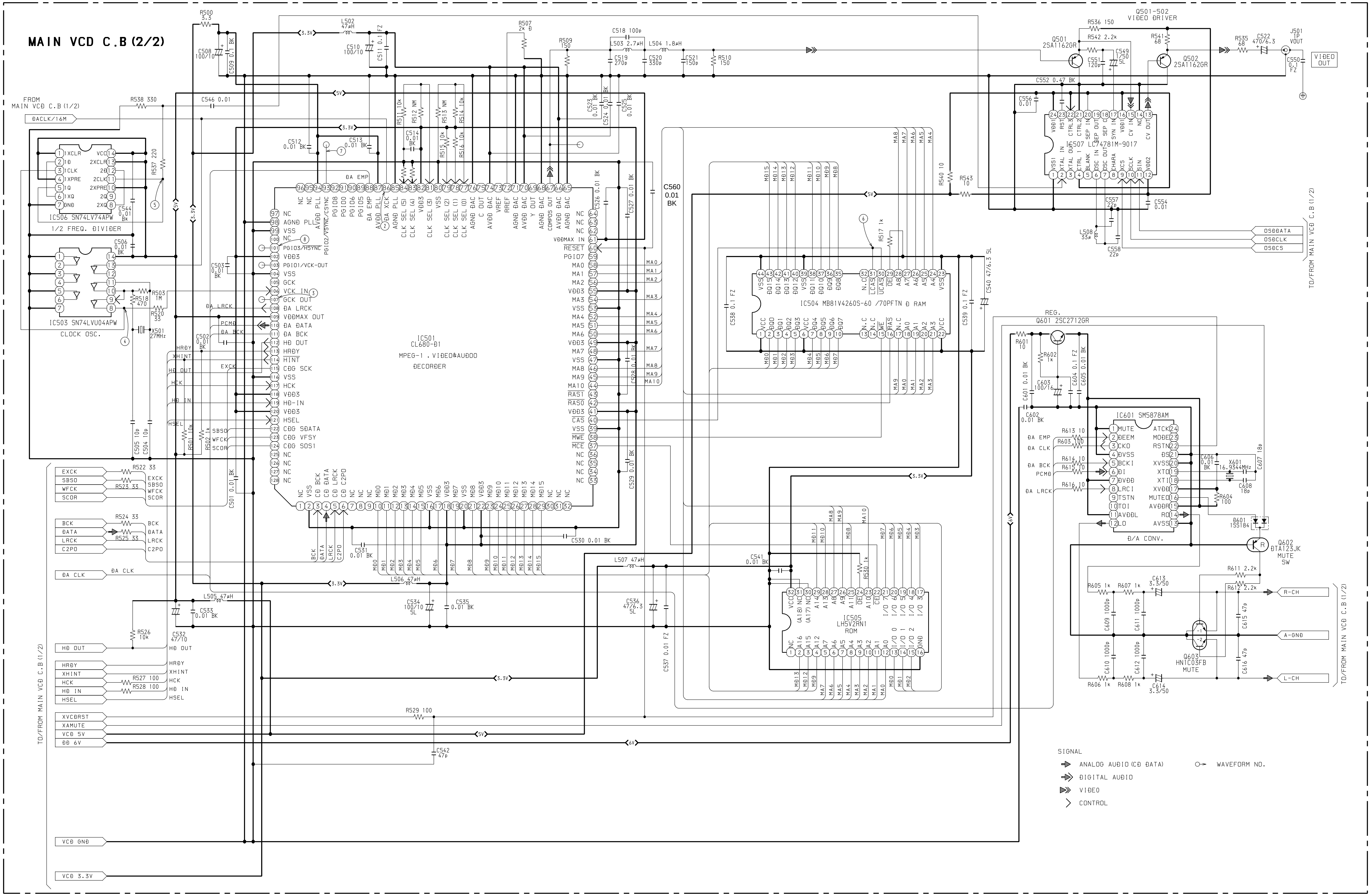
DRIVE C.B


M20
(SPINDLE
MOTOR)
SW1
(INSIDE LIMIT
SW)
SW1
M21
(SLED
MOTOR)
PIN3
1
2
3
4
5
6
MAIN VCD C.B
CN102

SCHEMATIC DIAGRAM-1


MAIN VCD C.B (1/2)
IC101 CXA1992AR ANALOG SERVO SIGNAL PROCESSOR
IC151 CXD2540Q-1/2 DIGITAL SIGNAL PROCESSOR
IC201 μPD78016FGC-549 MICRO PROCESSOR
IC202 GP1F32T
DIGITAL OUT (OPTICAL)
IC203 M51943BML RESET
IC102 BA5915FP
IC102 MOTOR COIL DRIVER
Q103 2SC2712GR
Q103 CD/VCD GAIN SELECT
Q101 2SA933S APC
Q102 DTC124XK SW
Q201 DTA124XK
Q202 DTA124XK
Q201, 202 SWITCH
Q301 2SA1357Y REG.
IC301 M5291FP
DC-DC CONV. (12V→6V)
Q302 DTA124XK
Q303 DTC124XK
Q302, 303 CD +B SWITCH
IC302 BA05FP 5V REG.
IC303 BA033FP 3.3V REG.
IC401 LB1644 MOTOR DRIVER
TRAY DISH MOTOR
Q401 DTC124XK SW
Q402 DTC124XK LED DRIVER
TO MAIN VCD C.B (2/2)
TO/FROM MAIN VCD C.B (2/2)
TO/FROM MAIN UNIT
CN101
CN102
CN301
CN401
CN402
CN403
NTSC
AUTO PAL
PAL
S201
CD MECHANISM 3ZG-2 E2
PICK UP ASSY KSS-213F
TRACKING
FOCUS
PD IC
LD
DRIVE C.B
SPINDLE MOTOR
SLED MOTOR
INSIDE LIMIT SW
T-T C.B
M401 TURN TABLE MOTOR
PS401 GP1S53V
CON401
LED C.B
CON402
LED402 SEL1550CM
LED403 SEL1550CM
LED401 SLP636C-81-5-T1
LED404 SLP636C-81-5-T1
LED401-404 (CD WINDOW LIGHTING)
SIGNAL
ANALOG AUDIO (CD DATA)
CONTROL
WAVE FORM NO.

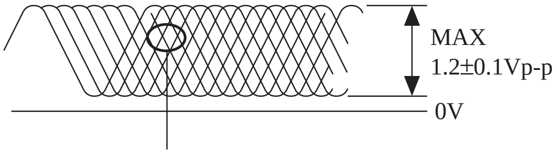
SCHEMATIC DIAGRAM-2



MAIN VCD C.B (2/2)
FROM MAIN VCD C.B (1/2)
DACLK/16M
IC506 SN74LV74APW
1/2 FREQ. DIVIDER
IC503 SN74LVU04APW
CLOCK OSC.
X501 27MHz
IC501 CL680-D1
MPEG-1 . VIDEO&AUDIO DECORDER
IC504 MB81V4260S-60 /70PFTN D RAM
IC505 LH5V2RN1 ROM
IC507 LC74781M-9017
Q501-502 VIDEO DRIVER
Q501 2SA1162GR
Q502 2SA1162GR
J501 1P VOUT
VIDEO OUT
REG. Q601 2SC2712GR
IC601 SM5878AM
D/A CONV.
X601 16.9344MHz
D601 1SS184
Q602 DTA123JK MUTE SW
Q603 HN1C03FB MUTE
R-CH
A-GND
L-CH
OSDDATA
OSDCLK
OSDCS
TO/FROM MAIN VCD C.B (1/2)
EXCK
SBSO
WFCK
SCOR
BCK
DATA
LRCK
C2PO
DA CLK
HD OUT
HRDY
XHINT
HCK
HD IN
HSEL
XVCDRST
XAMUTE
VCD 5V
DD 6V
VCD GND
VCD 3.3V
C560 0.01 BK
SIGNAL
ANALOG AUDIO (CD DATA)
DIGITAL AUDIO
VIDEO
CONTROL
WAVEFORM NO.

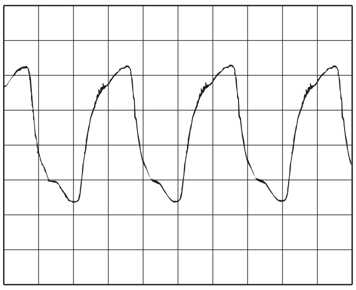
WAVE FORM

①
IC101 Pin ㉝ (RF-O)
VOLT/DIV: 200mV
TIME/DIV: 0.5µS

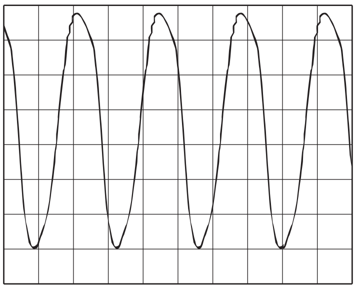


EYE PATTERN
must be CLEAR and MAX

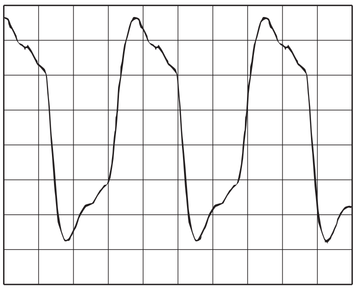
②
IC501 Pin (86) DA XCK
16.93MHz
VOLT/DIV: 1V
TIME/DIV: 20nS



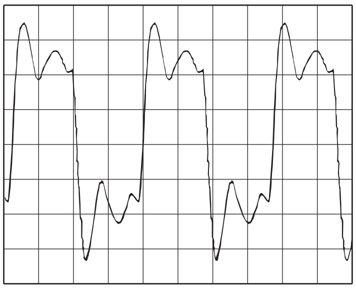
③
IC501 Pin (107) GCK OUT
42.3MHz
VOLT/DIV: 1V
TIME/DIV: 10nS



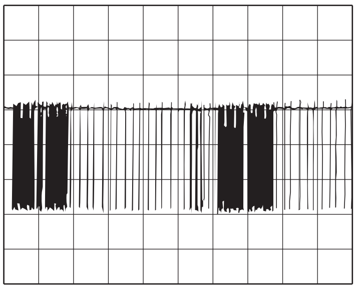
④
IC503 Pin ⑧ 33 VCK
27MHz±1.35kHz
VOLT/DIV: 1V
TIME/DIV: 10nS



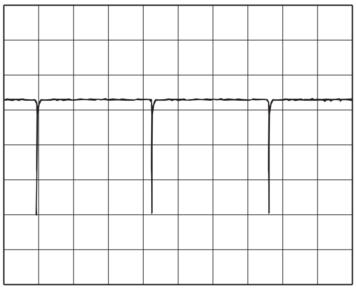
⑤
IC506 Pin ⑪ OSD CLK
13.5MHz±675Hz
VOLT/DIV: 1V
TIME/DIV: 20nS



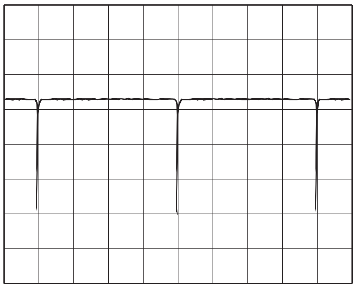
⑥
IC504 Pin ㉚ $\overline{\text{UCAS}}$
(Pin ㉛ $\overline{\text{LCAS}}$)
VOLT/DIV: 1V
TIME/DIV: 2µS



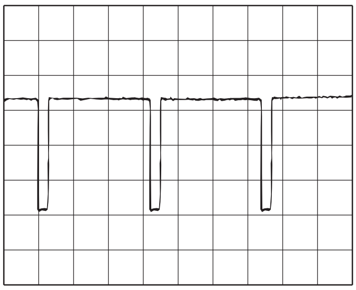
⑦
IC501 Pin (93) $\overline{\text{VSync}}$
NTSC
VOLT/DIV: 1V
TIME/DIV: 5mS



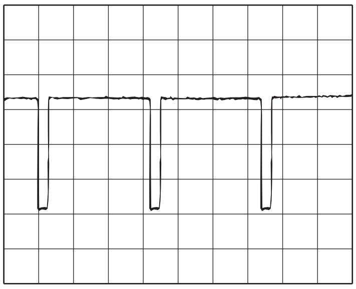
⑧
IC501 Pin (93) $\overline{\text{VSync}}$
PAL
VOLT/DIV: 1V
TIME/DIV: 5mS



⑧
IC501 Pin (101) $\overline{\text{HSync}}$
PAL
VOLT/DIV: 1V
TIME/DIV: 20µS



IC501 Pin (101) $\overline{\text{HSync}}$
NTSC
VOLT/DIV: 1V
TIME/DIV: 20µS



IC DESCRIPTION
IC, CXA1992AR

Pin No.	Pin Name	I/O	Description
1	FEO	O	Output terminal for focus error amplifier. Internally connected to window comparator input for bias condition.
2	FEI	I	Input terminal for focus error.
3	FDFCT	I	Capacitor connection terminal for time constant used when there is defect.
4	FGD	I	This pin is connected to GND via capacitor when high frequency gain of the focus servo is attenuated.
5	FLB	I	This is a pin where the time constant is externally connected to raise the low frequency gain of the focus servo.
6	FE_O	O	Focus drive output.
7	FEM	I	Focus amplifier inverted input pin.
8	SRCH	I	This is a pin where the time constant is externally connected to generate the focus search waveform.
9	TGU	I	This is a pin where the selection time constant is externally connected to set the tracking servo the high frequency gain.
10	TG2	I	This is a pin where the selection time constant is externally connected to set the tracking high frequency gain.
11	FSET	I	Pin for setting peak of the phase compensator of the focus tracking.
12	TA_M	I	Tracking amplifier inverted input pin.
13	TA_O	O	Tracking drive output.
14	SL_P	I	Sled amplifier non-inverted input pin.
15	SL_M	I	Sled amplifier inverted input pin.
16	SL_O	O	Sled drive output.
17	ISET	I	The current which determines height of the focus search, track jump and sled kick is input with external resistance connected.
18	Vcc	I	Power supply.
19	LOCK	I	“L” setting starts sled disorder-prevention circuit. (Not pull-up resistance)
20	CLK	I	Clock input for serial data transfer from CPU. (No pull-up resistance)
21	XLT	I	Latch input from CPU. (No pull-up resistance)
22	DATA	I	Serial data input from CPU. (No pull-up resistance)
23	XRST	I	Reset system at “L” setting. (No pull-up resistance)
24	C_OUT	O	Signal output for track number counting.
25	SENS1	O	FZC, DFCT1, TZC, BALH, TGH, FOH, or ATSC is output depending on the command from CPU.
26	SENS2	O	DFCT2, MIRR, BALL, TGL or FOL is output depending on the command from CPU.
27	FOK	O	Output terminal for focus OK comparator.
28	CC2	I	Input pin where the DEFECT bottom hold output is capacitance coupled.
29	CC1	O	DEFECT bottom-hold output terminal. Internally connected to interruption comparator input.
30	CB	I	Connection terminal for DEFECT bottom-hold capacitor.
31	CP	I	Connection terminal for MIRR hold-capacitor. Anti-reverse input terminal for MIRR comparator.

Pin No.	Pin Name	I/O	Description
32	RF_I	I	Input terminal by capacity combination of RF summing amplifier.
33	RF_O	O	Output terminal of RF summing amplifier. Checkpoint of Eye pattern.
34	RF_M	I	Anti-reverse input terminal for RF summing amplifier. The gain of RF amplifier is decided by the connection resistance between RF_M and RFO terminals.
35	RFTC	I	This is a pin where the selection time constant is externally connected to control the RF level.
36	LD	O	APC amplifier output terminal.
37	PD	I	APC amplifier input terminal.
38, 39	PD1, PD2	I	RFI-V amplifier inverted input pin. These pins are connected to the A+C and B+C pins of the optical pickup, receiving by currents input.
40	FEBIAS	I/O	Bias adjustment pin of the focus error amplifier.
41, 42	F, E	I	F and EIV amplifier inverted input pins. These pins are connected to the F and E of the optical pickup, receiving by current input.
43	EI	—	Gain adjustment pin of the I-V amplifier E. (When not in use of BAL automatic adjustment)
44	VEE	—	GND connection pin.
45	TEO	O	Output terminal for tacking-error amplifier. Output E-F signal.
46	LPFI	I	BAL adjustment comparator input pin. (Input through LPF from TEO)
47	TEI	I	Input terminal for tracking error.
48	ATSC	I	Window-comparator input terminal for detecting ATSC.
49	TZC	I	Input terminal for tracking-zero cross comparator.
50	TDFCT	I	Capacitor connection pin for the time constant used when there is defect.
51	VC	O	Output terminal for DC voltage reduced to half of VCC+VEE.
52	FZC	I	Input terminal for focus-zero cross comparator.

IC, CXD2540Q

Pin No.	Pin Name	I/O	Description
1	FOK	I	Focus OK input. Used for SENS output and the servo auto sequencer.
2	FSW	O	Spindle motor output filter switching output.
3	MON	O	Spindle motor on/off control output.
4	MDP	O	Spindle motor servo control.
5	MDS	O	
6	LOCK	O	High, when sampled value of GFS at 460Hz is high. Low, when sampled value of GFS at 460Hz is low by 8 times successively.
7	NC		
8	VCOO	O	Analog EFM PLL oscillation circuit output.
9	VCOI	I	Analog EFM PLL oscillation circuit input. fLOCK=8.6436MHz.
10	TEST	I	TEST pin.
11	PDO	O	Analog EFM PLL charge pump output.
12	VSS		GND.
13	PWMI	I	Spindle motor external control input.
14	V16M	O	VCO2 oscillation output for the wide-band EFM PLL.
15	VCTL	I	VCO2 control voltage input for the wide-band EFM PLL.
16	VPCO	O	Wide-band EFM PLL charge pump output.
17	VCKI	I	VCO2 oscillation input for the wide-band EFM PLL.
18	FILO	O	Multiplier PLL (slave=digital PLL) filter output.
19	FILI	I	Multiplier PLL filter input.
20	PCO	O	Multiplier PLL charge pump output.
21	AVSS		Analog GND.
22	CLTV	I	Multiplier VCO1 control voltage input.
23	AVDD		Analog power supply (5V).
24	RF	I	EFM signal input.
25	BIAS	I	Constant current input of the asymmetry circuit.
26	ASYI	I	Asymmetry comparator voltage input.
27	ASYO	O	EFM full-swing output.
28	ASYE	I	Low: asymmetry circuit off; high: asymmetry circuit on.
29	NC		
30	PSSL	I	Audio data output mode switching input. Low: serial output; high: parallel output.
31	WDCK	O	D/A interface for 48-bit slot. Word clock f=2Fs.
32	LRCK	O	D/A interface for 48-bit slot. LR clock f=Fs.
33	VDD		Power supply (5V).
34	DA16	O	DA16 (MSB) output when PSSL=1. 48-bit slot serial data (two’s complement, MSB first) when PSSL=0.
35	DA15	O	DA15 output when PSSL=1. 48-bit slot bit clock when PSSL=0.
36	DA14	O	DA14 output when PSSL=1. 64-bit slot serial data (two’s complement, LSB first) when PSSL=0.
37	DA13	O	DA13 output when PSSL=1. 64-bit slot bit clock when PSSL=0.
38	DA12	O	DA12 output when PSSL=1. 64-bit slot LR clock when PSSL=0.

Pin No.	Pin Name	I/O	Description
39	DA11	O	DA11 output when PSSL=1. GTOP output when PSSL=0.
40	DA10	O	DA10 output when PSSL=1. XUGF output when PSSL=0.
41	DA09	O	DA09 output when PSSL=1. XPLCK output when PSSL=0.
42	DA08	O	DA08 output when PSSL=1. GFS output when PSSL=0.
43	DA07	O	DA07 output when PSSL=1. RFCK output when PSSL=0.
44	DA06	O	DA06 output when PSSL=1. C2PO output when PSSL=0.
45	DA05	O	DA05 output when PSSL=1. XRAOF output when PSSL=0.
46	DA04	O	DA04 output when PSSL=1. MNT3 output when PSSL=0.
47	DA03	O	DA03 output when PSSL=1. MNT2 output when PSSL=0.
48	DA02	O	DA02 output when PSSL=1. MNT1 output when PSSL=0.
49	DA01	O	DA01 output when PSSL=1. MNT0 output when PSSL=0.
50	APTR	O	Aperture compensation control output. This pin outputs a high signal when the right channel is used.
51	APTL	O	Aperture compensation control output. This pin outputs a high signal when the left channel is used.
52	VSS		GND.
53	XTAI	I	Crystal oscillation circuit input.
54	XTAO	O	Crystal oscillation circuit output.
55	XTSL	I	Crystal selector input.
56	FSTT	O	2/3 frequency divider output for Pins 53 and 54.
57	FSOF	O	1/4 frequency divider output for Pins 53 and 54.
58	C16M	O	16.9344MHz output. (V16M output in CLV-W and CAV-W modes)
59	MD2	I	Digital-out on/off control. High: on; low: off
60	DOUT	O	Digital-out output.
61	EMPH	O	Outputs a high signal when the playback disc has emphasis, and a low signal when there is no emphasis.
62	WFCK	I	WFCK (write frame clock) output.
63	SCOR	O	Outputs a high signal when either subcode sync S0 or S1 is detected.
64	SBSO	O	Sub P to W serial output.
65	EXCK	I	SBSO readout clock input.
66	SQSO	O	Sub Q 80-bit and PCM peak, level metter and internal status outputs.
67	SQCK	I	SQSO readout clock input.
68	MUTE	I	High: mute; low: release
69	SENS	—	SENS output to CPU.
70	XRST	I	System reset. Reset when low.
71	DATA	O	Serial data input from CPU.
72	XLAT	O	Latch input from CPU. Serial data is latched at the falling edge.
73	VDD		Power supply (5V).
74	CLOK	O	Serial data transfer clock input from CPU.
75	SEIN	I	SENS input from SSP.
76	CNIN	I	Track jump count signal input.

Pin No.	Pin Name	I/O	Description
77	DATO	O	Serial data output to SSP.
78	XLTO	O	Serial data latch output to SSP. Latched at the falling edge.
79	CLKO	O	Serial data transfer clock output to SSP.
80	MIRR	I	Mirror signal input. Used when the number of tracks is 128 or more for the 2N-track jump and M track move of the auto sequencer.

Notes)

- The 64-bit slot is an LSB first, two's complement output, and the 48-bit slot is an MSB first, two's complement output.
- GTOP is used to monitor the frame sync protection status. (High: sync protection window open.)
- XUGF is the negative pulse for the frame sync obtained from the EFM signal. It is the signal before sync protection.
- XPLCK is the inverse of the EFM PLL clock. The PLL is designed so that the falling edge and the EFM signal transition point coincide.
- GFS goes high when the frame sync and the insertion protection timing match.
- RFCK is derived from the crystal accuracy, and has a cycle of 136µ.
- C2PO represents the data error status.
- XRAOF is generated when the 32K RAM exceeds the ±28F jitter margin.

IC, CL680

Pin No.	Pin Name	I/O	Description
1	NC	—	No connection.
2	VSS	—	GND.
3	CD BCK	I	Bit clock input from CD DSP.
4	CD DATA	I	Data input from CD DSP.
5	CD LRCK	I	LRCK input from CD DSP.
6	CD C2PO	I	C2 pointer input from CD DSP.
7-9	NC	—	No connection.
10-15	MD0-MD5	I/O	DRAM/ROM interface. (DATA)
16	VSS	—	Ground.
17	MD6	I/O	DRAM/ROM interface. (DATA)
18	VDD3	—	Power supply 3.3V.
19	MD7	I/O	DRAM/ROM interface. (DATA)
20	VSS	—	Ground.
21	MD8	I/O	DRAM/ROM interface. (DATA)
22	VDD3	—	Power supply 3.3V.
23-29	MD9-MD15	I/O	DRAM/ROM interface. (DATA)
30-36	NC	—	No connection.
37	$\overline{\text{MCE}}$	—	ROM chip enable.
38	$\overline{\text{MWE}}$	O	DRAM write enable.
39	VSS	—	Ground.
40	$\overline{\text{CAS}}$	O	DRAM/ROM interface.
41	VDD3	—	Power supply 3.3V.
42	$\overline{\text{RASO}}$	O	DRAM/ROM interface.
43	$\overline{\text{RASI}}$	O	
44-46	MA10-MA8	O	DRAM/ROM interface. (Address)
47	VSS	—	Ground.
48	MA7	O	DRAM/ROM interface. (Address)
49	VDD3	—	Power supply 3.3V.
50-52	MA6-MA4	O	DRAM/ROM interface. (Address)
53	VSS	—	Ground.
54	MA3	O	DRAM/ROM interface. (Address)
55	VDD3	—	Power supply 3.3V.
56-58	MA2-MA0	O	DRAM/ROM interface. (Address)
59	PGIO7	I/O	Programmable I/O.
60	$\overline{\text{RESET}}$	I	Reset input.
61	VDD MAX IN	—	Power supply - VDDMAX. (5.0V)
62-64	NC	—	No connection.
65	AGND DAC	—	Analog ground.
66	A DAC	—	Analog power supply (DAC) : 3.3V.
67	COMP OUT	O	Composite out.
68	AGND DAC	—	Analog ground.

Pin No.	Pin Name	I/O	Description
69	Y OUT	O	Video signal “Y” OUT.
70	AVDD DAC	—	Analog power supply (DAC) 3.3V.
71	AGND DAC	—	Analog ground.
72	R REF	I	Reference resistor input.
73	V REF	I	Voltage reference input.
74	AVDD DAC	—	Analog power supply (DAC) : 3.3V.
75	C OUT	O	Video signal “C” out.
76	AGND DAC	—	Analog ground.
77-79	CLK SEL0-2	I	Clock selection input.
80	VSS	—	Ground.
81	CLK SEL3	I	Clock selection input.
82	VDD3	—	Power supply 3.3V.
83, 84	CLK SEL4, 5	I	Clock selection input.
85	AGND PLL	—	Analog ground.
86	DA XCK	I	DA XCK (16.933MHz) input.
87	AVDD PLL	—	Analog power supply 3.3V.
88	DA EMP	O	DAC-emphasis output.
89, 90	PGIO5, O6	I/O	Programmable I/O.
91	PGIO0	I/O	
92	PGIO8	I/O	
93	$\overline{\text{VSYNC}}$/$\overline{\text{CSYNC}}$	O	$\overline{\text{VSYNC}}$/$\overline{\text{CSYNC}}$ output.
94	AVDD PLL	—	Analog power supply (PLL) 3.3V.
95	VID_DAC_CK	O	Video DAC clock.
96	PROC_CK	O	Processor clock.
97	AUD_XCK	O	Audio XCK.
98	AGND PLL	—	Analog ground.
99	VSS	—	Ground.
100	NC	—	No connection.
101	$\overline{\text{HSYNC}}$	O	$\overline{\text{HSYNC}}$ output.
102	VDD3	—	Power supply 3.3V.
103	VCK OUT	O	VCK out.
104	VSS	—	Ground.
105	GCK	I	Global clock signal input. (42.3MHz)
106	VCK	I	Video clock signal input. (27.0MHz)
107	GCK OUT	O	Global clock signal output. (27.0MHz)
108	DA LRCK	O	DAC-LRCK output.
109	VDD MAX OUT	—	Power supply (VDD MAX) : 5.0V.
110	DA DATA	O	DAC-PCM data output.
111	DA BCK	O	DAC-BIT clock output.
112	HD OUT	O	Micon interface. (Data out)
113	HRDY	O	Micon interface. (Host ready)

Pin No.	Pin Name	I/O	Description
114	$\overline{\text{HINT}}$	O	Micon interface. (Host interrupt)
115	CDG SCK	I	CD-G serial clock input.
116	VSS	—	Ground.
117	HCK	I	Micon interface. (Host clock)
118	VDD3	—	Power supply 3.3V.
119	HD IN	I	Micon interface. (Host data in)
120	VDD3	—	Power supply 3.3V.
121	HSEL	I	Micon interface. (Host select in)
122	CDG DATA	I	CD-G data input.
123	CDG VFSY	I	CD-G VFSY input.
124	CDG SOSI	I	CD-G SOSI input.
125	DSP-XCK	O	DSP-XCK output.
126-128	NC	—	No connection.

IC, LC74781M

Pin No.	Pin Name	I/O	Description
1	VSS1	—	GND connection terminal. (Digital ground terminal).
2	Xtal IN	I	External X'tal and capacitor for internal sync generator, or the external clock are connected to this terminal. (2fsc or 4fsc).
3	Xtal OUT	O	
4	CTRL1	I	Either the external clock input mode or the X'tal generator mode is selected by this selector terminal. L: X'tal generator mode, H: External clock input.
5	BLANK	O	Blank signal (character and the green ORed signal) is output from this terminal. (MODE 0: composite sync signal is output at H.) When reset ($\overline{\text{RST}}$ terminal = L), the X'tal clock signal is output. (It is not output when reset by the reset command).
6	OSC IN	I	External coil and capacitor for the character output dot clock generator are connected to this terminal.
7	OSC OUT	O	
8	CHARA	O	The character signal is output from this terminal. (MOD 0: when H, the external sync signal identification signal is output from this terminal. This output signal tells whether the external sync signal is present or not. When external sync signal is present, H is output.) When reset ($\overline{\text{RST}}$ terminal = L), the dot clock signal (LC oscillator) is output. (It is not output when reset by the reset command).
9	$\overline{\text{CS}}$	I	Enable signal for the serial data input is input to this terminal. The serial data input is enabled at L. Pull-up resistor is built-in. (Hysteresis input).
10	SCLK	I	Clock of the serial data input is input to this terminal. Pull-up resistor is built-in. (Hysteresis input).
11	SIN	I	Serial data input terminal. Pull-up resistor is built-in. (Hysteresis input).
12	VDD2	—	Power supply for the composite video signal level adjustment. (Analog power supply).
13	CV OUT	O	Composite video signal output terminal.
14	NC	—	Connected to GND or not connected.
15	CV IN	I	Composite video signal input terminal.
16	VDD1	—	Power supply (+5V digital power supply).
17	SYN IN	I	Video signal for the internal sync separator circuit is input to this terminal. (When the internal sync separator circuit is not used, the horizontal sync signal or composite sync signal is input to this terminal).
18	SEP C	—	Internal sync separator circuit bias voltage monitoring terminal.
19	SEP OUT	O	The composite sync output signal of the internal sync separator circuit is output from this terminal. (H: MOD 1. H: during internal sync mode. L: during external sync mode.) (When internal sync separator circuit is not used, the SYN IN input signal is output from this terminal).
20	SEP IN	I	The output signal of the SEP OUT terminal is integrated so that the vertical sync signal is input to this terminal. An integrator circuit must be connected between the SEP OUT terminal and this terminal. When this terminal is not used, it must be connected to VDD1.
21	CTRL2	I	When selecting any of the NTSC or PAL or PAL-M or PAL-N system, the pin setting has priority. When L, the NTSC system is selected after resetting. Selection of either NTSC or PAL or PAL-M or PAL-N system by the command becomes effective. H: PAL-M system.

Pin No.	Pin Name	I/O	Description
22	CTRL3	I	Controls whether or not to input the $\overline{\text{VSYNC}}$ signal to the SEPIN input. L: to input the $\overline{\text{VSYNC}}$ signal. H: not to input the $\overline{\text{VSYNC}}$ signal.
23	$\overline{\text{RST}}$	I	System reset input terminal. Pull-up resistor is built-in. (Hysteresis input).
24	VDD1	—	Power supply. (+5V digital power supply).

IC, µPD78016FGC

Pin No.	Pin Name	I/O	Description
1	RBPLS	O	RADIAL BALANCE PLUS.
2	AMUTE	O	AUDIO ANALOG MUTE (H=MUTE ON).
3	GFS	I	GFS.
4	XVCDMD	I	AUDIO/VIDEO CD MODE (L=VCD=SPINDLE GAIN UP).
5	MD2	O	DOUT MUTE CONT.
6	EMPH	I	EMPHASIS.
7	SQSO	I	SQDATA FROM CD.
8	SQCK	O	SQCLK TO CD.
9	VSS	—	GND.
10	SWNT	I	SW TV OUT MODE (L=NTSC).
11	SWAUTO	I	SW TV OUT MODE (L=NTSC/PAL AUTO).
12	SWPAL	I	SW TV OUT MODE (L=PAL).
13	EMERG	I	POWER EMERGENCY STOP (L*3sec=STOP).
14	NC	—	Nou used.
15	LPCSEL	I	“LPC ON/OFF (H=ON, NORMAL)”.
16	NC	—	Nou used.
17	LOCK	O	GFS (FRAME SYNC) LOCK (NO USE=H).
18	DMUTE	O	DIGITAL DATA OUT MUTE.
19	SENS	I	DSP SENS1 FROM CD.
20	XCDRST	O	CD RESET.
21	DATA	O	DATA TO CD.
22	XLAT	O	XLT TO CD.
23	CLOK	O	CLK TO CD.
24	VSS	—	GND.
25	FOK	I	FOCUS OK.
26	SENS2	I	SSP SENS2 FROM CD.
27	XBUSY	I/O	READY/BUSY I/O TO HOST OD.
28	NC	—	Nou used.
29	NC	—	
30	NC	—	
31	TST0	I/O	CHECK LAND.
32	TST1	I/O	
33	TST2	I/O	
34	TST3	I/O	
35	RESET	I	RESET.
36	HRDY	I	HRDY FROM CL680.
37	XHINT	I	HINT FROM CL680.
38	NC	—	Nou used.
39	SCOR	I	SCOR FROM CD.
40	VDD	—	5.0VDD.
41	XO	O	8.0MHz CERALOCK.

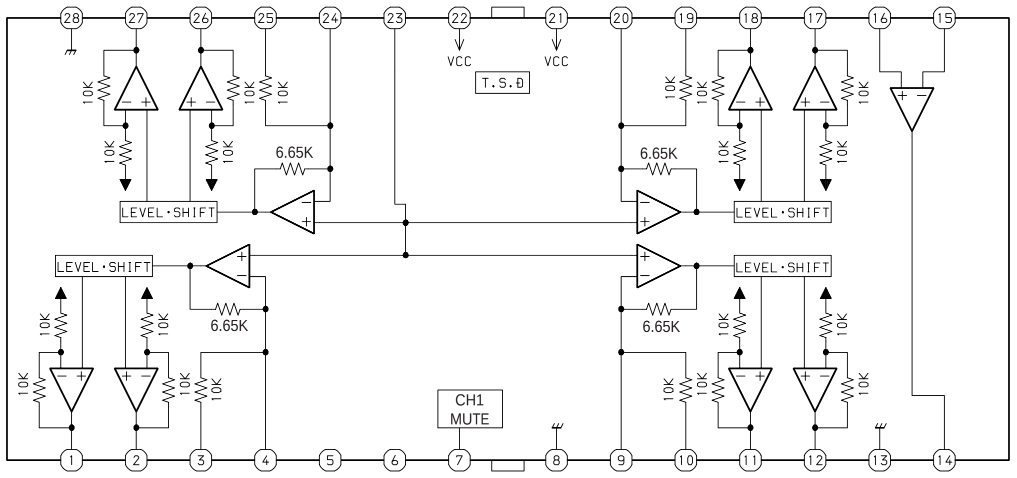
Pin No.	Pin Name	I/O	Description
42	XI	I	8.0MHz CERALOCK.
43	VSS	—	GND.
44	XT2	—	Nou used.
45	XT1	I	5.0VDD.
46	AVSS	—	GND.
47	XMPGRST	O	MPEG BLOCK IC RESET.
48	HSEL	O	ADDRESS/DATA SEL TO CL680.
49	INLSW	I	INSIDE LIMIT SW.
50	NC	—	Nou used.
51	OSDXCS	O	OSD CHIP SELECT.
52	ABSEL	I	CXA1992A/B SELECT (L=CXA1992A).
53	CLVSEL	I	CLV MODE SELECT (H=CLV-N).
54	AADSEL	I	AUTO ADJUST SELECT (H=AUTO ON).
55	AVDD	—	5.0VDD.
56	AVREF	—	
57	HDOUT	I	HD-OUT FROM CL680.
58	HDIN	O	HD-IN TO CL680.
59	HCK	O	HCK TO CL680.
60	OSDDATA	O	OSD DATA.
61	OSDCLK	O	OSD CLOCK.
62	COMMAND	I	COMMAND FROM HOST.
63	STATUS	O	STATUS TO HOST.
64	SCK	I	SCK FROM HOST.

IC, SM5878M

Pin No.	Pin Name	I/O	Description
1	MUTE	I	MODE = H: Soft mute ON/OFF terminal. (Mute at H). MODE = L: Attenuator level DOWN/UP terminal. (DOWN at H).
2	DEEM	I	De-emphasis ON/OFF terminal. (De-emphasis ON at H).
3	CKO	O	Oscillator clock output. (16.9344 MHz).
4	DVSS	—	Digital VSS terminal.
5	BCKI	I	Bit clock input terminal.
6	DI	I	Serial data input terminal.
7	DVDD	—	Digital VDD terminal.
8	LRCI	I	Sample rate clock (fs) input terminal. (H = L ch/L = R ch).
9	TSTN	I	Test input. (“H” or open during normal operation)
10	TO1	O	Test output 1. (Normally low level output).
11	AVDDL	—	Analog VDD terminal. (For L ch).
12	LO	O	Left channel analog output terminal.
13	AVSS	—	Analog VSS terminal.
14	RO	O	Right channel analog output terminal.
15	AVDDR	—	Analog VDD terminal. (For R ch).
16	MUTEO	O	Infinity zero detection output.
17	XVDD	—	X’tal system VDD terminal.
18	XTI	I	X’tal oscillator terminal. (Or external clock input terminal of 16.9344 MHz).
19	XTO	O	X’tal oscillator terminal.
20	XVSS	—	X’tal system VSS terminal.
21	DS	I	Double-speed/normal playback selection. (Double-speed at H).
22	RSTN	I	Reset terminal. (Reset at L).
23	MODE	I	Soft mute/Attenuator mode selection. (Soft mute at H).
24	ATCK	I	Attenuator level setup clock (Ignored when MODE = H).

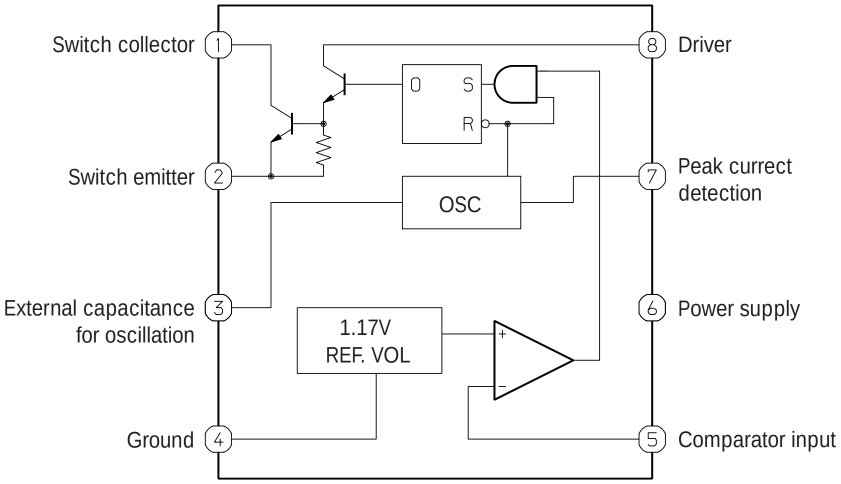
IC BLOCK DIAGRAM

IC, BA5915FP

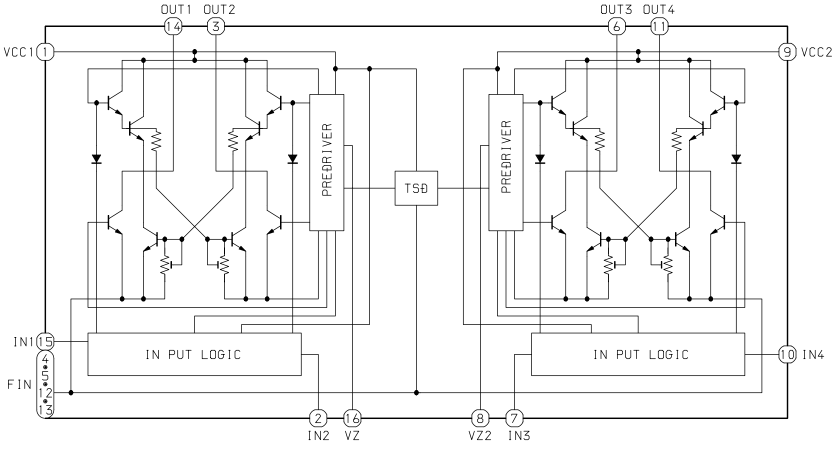

28
27
26
25
24
23
22
21
20
19
18
17
16
15
VCC
VCC
T.S.D
10K
6.65K
LEVEL·SHIFT
CH1 MUTE
1
2
3
4
5
6
7
8
9
10
11
12
13
14

T.S.D: Thermal shut-down
Resistors are in units of Ω.

IC, M5291FP


Switch collector
1
Switch emitter
2
External capacitance for oscillation
3
Ground
4
Driver
8
Peak currect detection
7
Power supply
6
Comparator input
5
O
S
R
OSC
1.17V REF. VOL

IC, LB1644


OUT1
OUT2
14
3
OUT3
OUT4
6
11
VCC1
1
9
VCC2
PREDRIVER
TSD
PREDRIVER
IN1
15
IN PUT LOGIC
IN PUT LOGIC
10
IN4
FIN
4
5
12
13
2
16
8
7
IN2
VZ
VZ2
IN3

TRUH TABLE

IN1	IN2	OUT1	OUT2	IN3	IN4	OUT3	OUT4
0	0	L	L	0	0	L	L
1	0	H	L	1	0	H	L
0	1	L	H	0	1	L	H
1	1	L	L	1	1	L	L

INPUT			OUTPUT				MODE	
IN1	IN2.3	IN4	OUT1	OUT2	OUT3	OUT4	M1	M2
0	0	0	L	L	L	L	BRAKE	BRAKE
1	0	0	H	L	L	L	FF/REW	BRAKE
0	1	1	L	H	L	L	REW/FF	BRAKE
1	1	0	L	L	H	L	BRAKE	FF/REW
0	0	1	L	L	L	H	BRAKE	REW/FF
1	1	1	L	L	L	L	BRAKE	BRAKE

TEST MODE

1. How to Activate CD Test Mode
   Insert the AC plug while pressing the function CD button.
   All FL display tubes will light up, and the test mode will be activated.

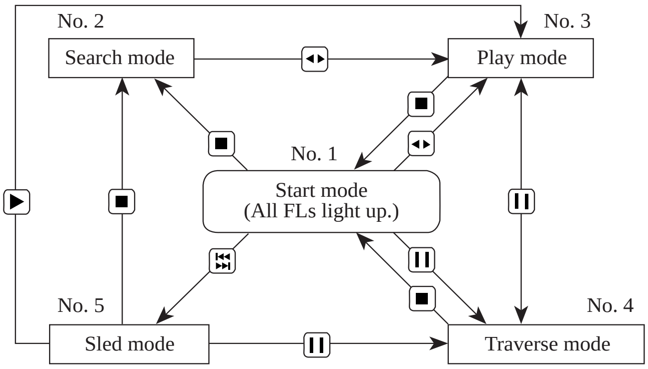
2. How to Cancel CD Test Mode
   Either one of the following operations will cancel the CD test mode.
   - Press the function button. (except CD function button)
   - Press the power switch button.
   - Disconnect the AC plug

3. CD Test Mode Functions
   When test mode is activated, the following mode functions from No.1 to No.5 can be used by pressing the operation keys.

Mode/No.	Operation	FL display	Operation	Contents
Start mode No.1	Activation	TEST□□ □□ □□ Flashes repeatdly	• Test mode is activated. • CD block power is ON.	• Test mode
Search mode No.2	■ key		• Continual focus search (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes. * NOTE 1	FOCUS SERVO • Check focus search waveform • Check focus error waveform (FOK/FZC are not monitored in the search mode)
Play mode No.3	◀▶key		• Normal playback • Focus search is continued if TOC cannot be read. * NOTE 1	FOCUS SERVO/TRACKING SERVO CLV SERVO/SLED SERVO Check FOK/FZC
Traverse mode No.4	❚❚ key		• During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON * NOTE 2	TRACKING SERVO ON/OFF Tracking balance (traverse) check
Sled mode No.5	⏮key ⏭	All lamps light	• Pickup moves to the outermost track • Pickup moves to the innermost track * NOTE 3 (During playback, machine operates normally.)	SLED SERVO Check SLED mechanism operation

* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.
* NOTE 2: Do not press the ⏮or ⏭keys when the machine is in the ❚❚ status is active. If they are pressed, playback will not be possible after the ❚❚ status has been canceled. If the ⏮or ⏭keys are pressed in the ❚❚status, press the ■key and return to the start mode (No.1).
* NOTE 3: When pressing the ⏮or ⏭keys, take care to avoid damage to the gears. Because the sled motor is activated when the ⏮or ⏭ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline
   The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.



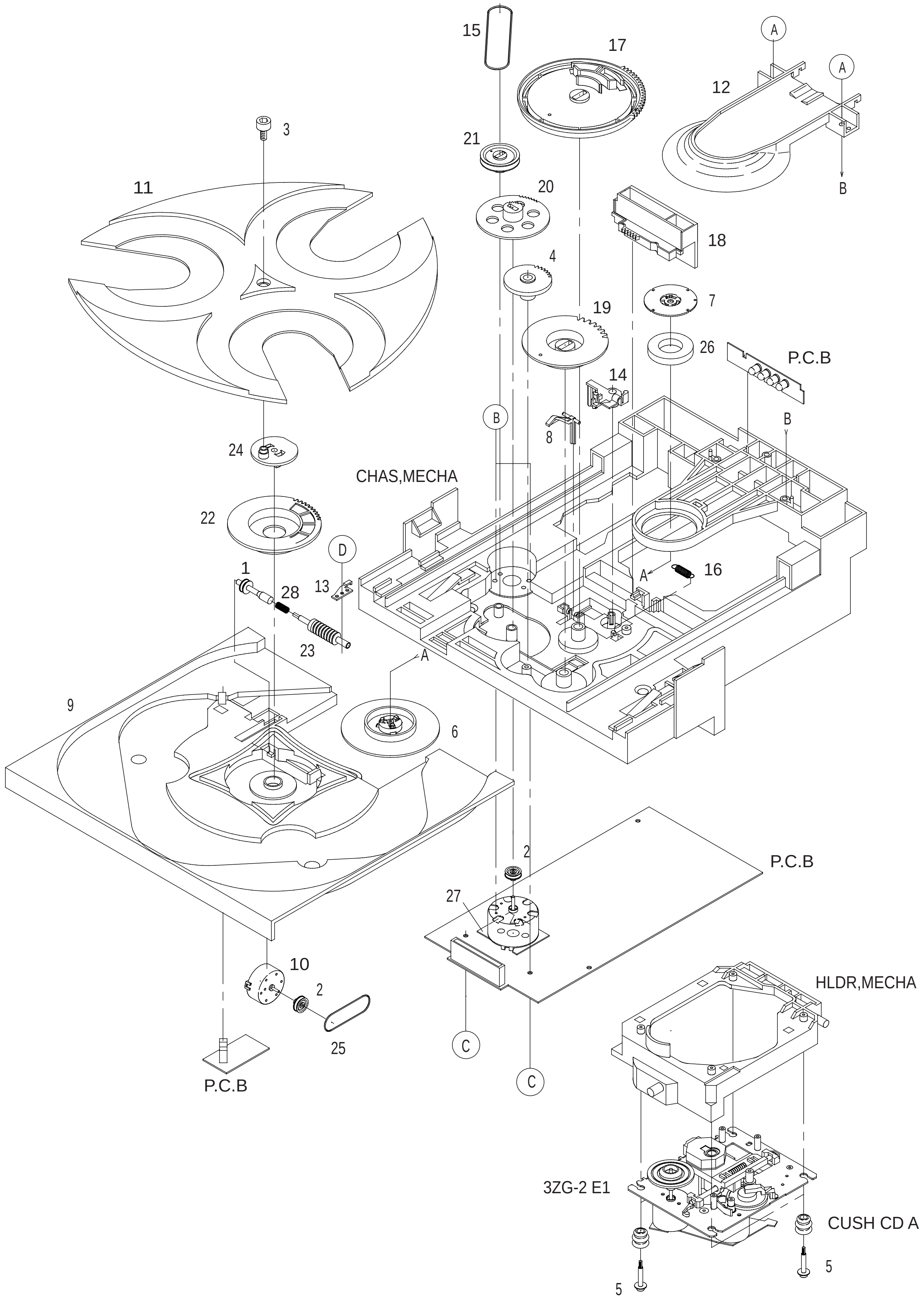
If the DISC DIRECT PLAY button is pressed, the machine performs the same operation as the PLAY button is pressed as shown. If the tray is opened by pressing OPEN/CLOSE button during Play mode or Traverse mode, the machine returns to the Start mode.

5. How to check the Automatic Adjustment Values
   The automatic adjustment values can be checked by pressing the square (■) button.
   FL display (displayed in hexadecimal values)

```
**  **  **
 |   |   └──────────► Tracking balance (00-0F)
 |   └──────────────► Tracking gain (00-0C)
 └──────────────────► Focus bias (10-2F)
```

Note) The reference value is “20 08 08”.

MECHANICAL EXPLODED VIEW 1/1

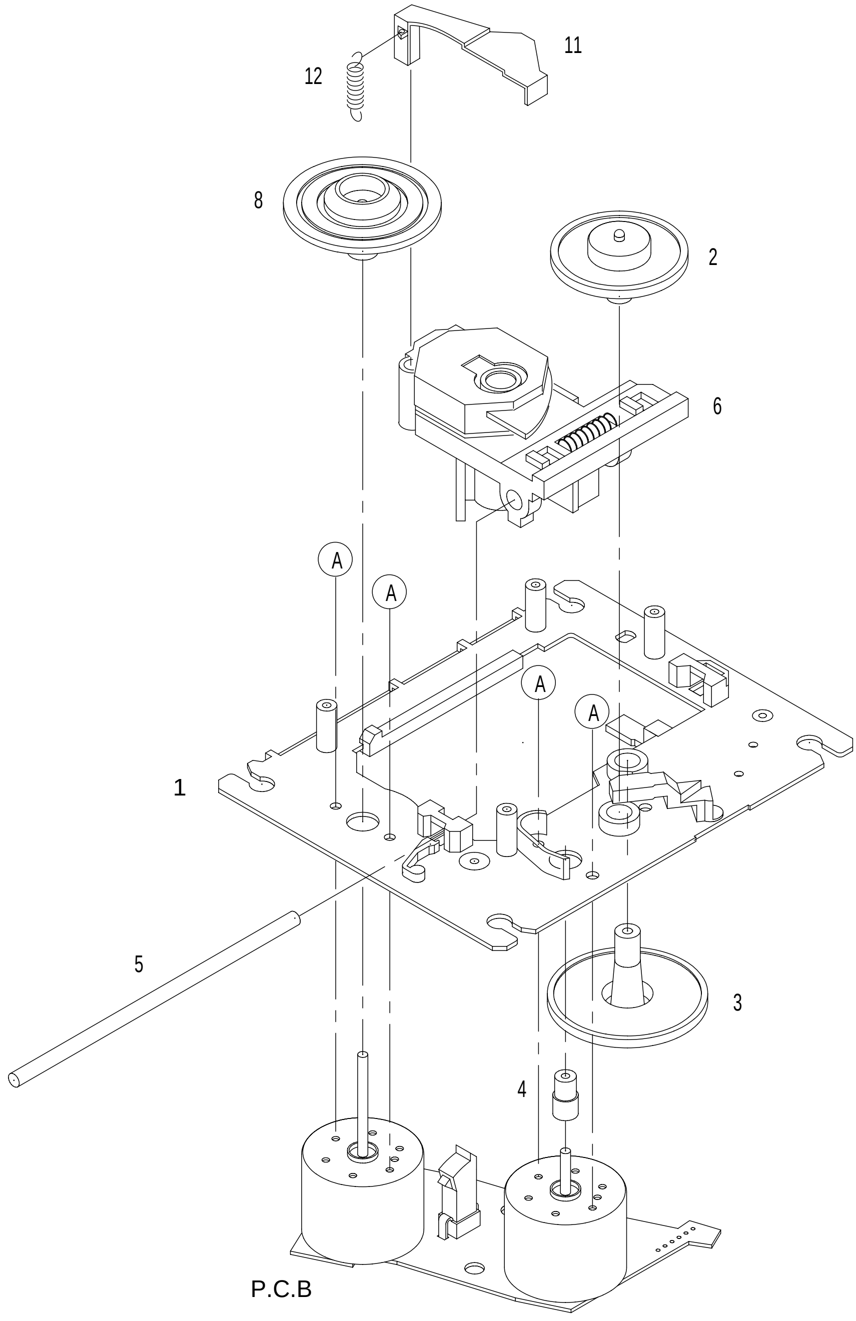

15
17
A
A
12
3
21
B
11
20
18
4
7
19
26
P.C.B
14
B
8
B
24
CHAS,MECHA
22
D
A
16
1
13
28
23
A
9
6
2
P.C.B
27
10
HLDR,MECHA
2
25
C
P.C.B
C
3ZG-2 E1
CUSH CD A
5
5

MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	84-ZG1-239-210		PULLY,WORM N
2	84-ZG1-267-010		PULLEY,LOAD MO 8
3	81-ZG1-239-010		S-SCREW,TT
4	81-ZG1-291-110		GEAR,TRAY RELAY NO3
5	81-ZG1-271-010		S-SCREW MECH REAR
6	81-ZG1-277-310		HLDR,MAGNET N
7	81-ZG1-255-110		PLATE,MAGNET MK2
8	83-ZG3-213-010		LVR,SW
9	84-ZG1-003-310		TRAY,NO2-B
10	87-045-364-010		MOTOR(BCH3B14)
11	84-ZG1-005-210		TURNTABLE,NO1(*)
12	84-ZG1-011-010		REFLECTOR,CD
13	84-ZG1-259-010		SPR-P,WORM
14	84-ZG1-208-210		LEVER,CAM
15	84-ZG1-209-010		BELT,SQ1.8-117.7
16	84-ZG1-211-010		SPR-E CAM S
17	84-ZG1-215-410		GEAR,MAIN CAM BLU
18	84-ZG1-216-310		SLIDE,MECHA CAM YEL
19	84-ZG1-205-110		GEAR,TRAY
20	84-ZG1-206-110		GEAR,RELAY
21	84-ZG1-207-010		PULLEY,RELAY
22	84-ZG1-221-010		GEAR,MAIN TT
23	84-ZG1-238-010		GEAR,WORM N
24	84-ZG1-224-010		LEVER,TT
25	84-ZG1-225-010		BELT,SQ1.0-63.3
26	83-ZG3-602-010		RING,MAG
27	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
28	84-ZG1-248-010		SPR-C,WORM
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-251-070-410		U+2.6-3
C	87-342-036-210		UT2+2-8
D	87-067-981-010		BVT2+3-6 BLK

CD MECHANISM EXPLODED VIEW 1/1 (3ZG-2 E1)



CD MECHANISM PARTS LIST 1/1 (3ZG-2 E1)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-243-110		CHAS ASSY,SHT
2	83-ZG2-235-010		GEAR,A3
3	83-ZG2-205-210		GEAR,B
4	83-ZG2-236-010		GEAR MOTOR 3
5	83-ZG2-240-010		SHAFT,SLIDE 3
6	87-A90-836-010		PICKUP,KSS-213F
8	83-ZG2-233-010		TURN TABLE,A5
11	83-ZG2-245-110		LEVER,SHUTTER
12	83-ZG2-250-010		SPR-E,SHT 2
A	87-261-032-210		SCREW V+2-3

USE MODEL LIST

- CX-NAK572
- CX-NK270
- CX-NK290
- CX-NK370
- CX-NK570
- CX-NK765
- CX-NK770
- CX-NK970
- DX-SNKH100

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G—　—	
G—　—	
G—　—	

アイワ株式会社
AIWA CO.,LTD.

912162

Tokyo Japan

〒110　東京都台東区池之端1-2-11　☎03（3827）3111（代表）

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